ORDER NO. MD9708090C2

Service Manual

AV Control Stereo Receiver

Receiver

SA-AX710

DOLBY SURROUND PRO·LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol DD and "PRO LOGIC" are trademark of Dolby Laboratories Licensing Corporation.

Colour
(K) ..... Black Type

Areas
(E) ..... Europe.
(EB) ..... Great Britain.
(EG)..... Germany and Italy.

Specifications

FM TUNER SECTION

Frequency range	87.50 – 108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV/75 Ω
S/N 26 dB	1.3 µV/75 Ω
S/N 20 dB	1.2 µV/75 Ω
IHF usable sensitivity (IHF'58)	1.5 µV/75 Ω
IHF 46 dB stereo quieting sensitivity	22 µV/75 Ω
Total harmonic distortion	
MONO	0.2 %
STEREO	0.3 %
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB (71 dB, IHF)
Frequency response	20 Hz – 15 kHz (+1 dB, –2 dB)
Alternate channel selectivity ± 400 kHz	60 dB
Capture ratio	1 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	–30 dB (–35 dB, IHF)
38 kHz	–50 dB (–55 dB, IHF)
Channel balance (250 Hz – 6.3 kHz)	±1.5 dB
Limiting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75 Ω (unbalanced)

AM TUNER SECTION

Frequency range	
AM	522 kHz – 1611 kHz (9 kHz steps) 530 kHz – 1620 kHz (10 kHz steps)
Sensitivity	20 µV, 330 µV/m
Selectivity (at 999 kHz)	55 dB
Image rejection (at 999 kHz)	40 dB
IF rejection (at 999 kHz)	55 dB

VIDEO SECTION

Output voltage at 1V input (unbalanced)	1 ± 0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω (unbalanced)

AMPLIFIER SECTION

Power output [at 240V for (EB) area]	
DIN 1 kHz (T.H.D. 1 %)	2 × 100 W (4 Ω)
20 Hz – 20kHz continuous power output both channels driven	2 × 65 W (8 Ω)
Total harmonic distortion	
rated power at 20 Hz – 20 kHz	0.05 % (8 Ω)
half power at 1 kHz	0.03 % (8 Ω)
Power output at the Dolby Pro Logic operation	
DIN 1 kHz (T.H.D. 1 %)	
Front	2 × 60 W (4 Ω)
Center	60 W (8 Ω)
Surround	2 × 60 W (8 Ω)
Intermodulation distortion	
rated power at 60 Hz : 7 kHz = 4 : 1, SMPTE	0.5 % (8 Ω)
Power bandwidth	
both channels driven, –3 dB	10 Hz – 40 kHz (8 Ω)
Damping factor	30 (8 Ω)
Load impedance	
Front A or B	4 – 16 Ω
A and B	8 – 16 Ω
Center	8 – 16 Ω
Surround	8 – 16 Ω
Frequency response	
PHONO	RIAA standard curve (30 Hz – 15 kHz) ±0.8 dB
CD, TAPE, TV/VCR2, VCR1, DVD	10 Hz – 40 kHz, ±3 dB
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
CD, TAPE, TV/VCR2, VCR1, DVD	200 mV/22 kΩ
S/N at rated power (8 Ω)	
PHONO	70 dB (IHF, A : 80 dB)
CD, TAPE, TV/VCR2, VCR1, DVD	75 dB (IHF, A : 85 dB)
Tone controls	
BASS	50 Hz, +10 to –10 dB
TREBLE	20 kHz, +10 to –10 dB
Output voltage	
TAPE REC (OUT), VCR1 out	200 mV
Channel balance (250 Hz – 6.3 kHz)	±1 dB
Channel separation	55 dB
Loudness control (volume at –30 dB)	50 Hz, +9 dB
Headphones output level and impedance	430 mV/330 Ω
Subwoofer frequency response	7 Hz – 100 Hz, ±3dB

GENERAL

Power consumption	220 W (In standby condition : 3 W)
Power supply	
For (E) and (EG) areas	AC 230 V, 50 Hz
For (EB) area	AC 230 – 240 V, 50 Hz
Dimensions (W × H × D)	430 × 158 × 312 mm
Weight	9.6 kg

Notes:
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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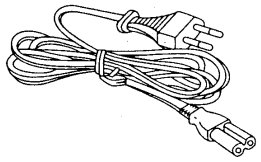
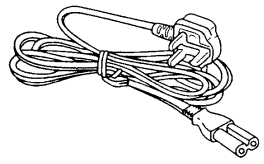
■ Accessories

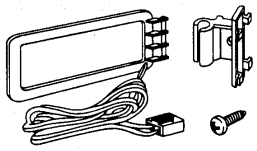
- AC power supply cord
  [for (E) and (EG) areas] : (RJA0019-2K) .. 1 pc.



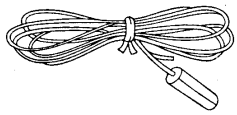
[for (EB) area] : (VJA0733) ..... 1 pc.



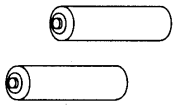
- AM loop antenna set
  (RSA0010) ..... 1 pc.



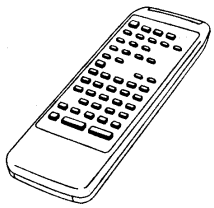
- FM indoor antenna
  (RSA0007) ..... 1 pc.



- Batteries
  ..... 2 pc.



- Remote control transmitter
  (RAK-SA750WHP) ..... 1 pc.



- Attachment plug
  (SJP9009) ..... 1 pc.

■ Before Repair

(1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C703, C704, C705, C706) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V or 240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	120 ~ 350 mA	130 ~ 380 mA

■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ Caution for AC Main Lead

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFETY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF–KEEP DRY.

Before use

Removal the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

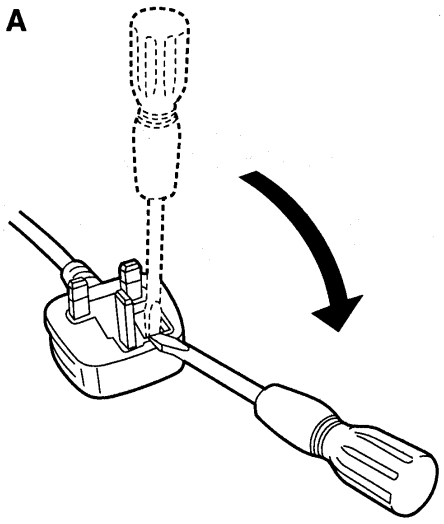
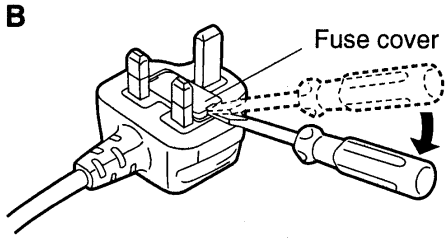


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

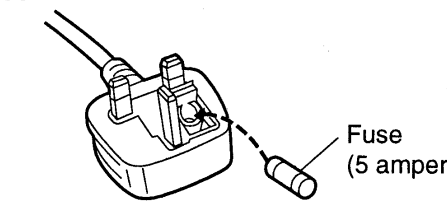
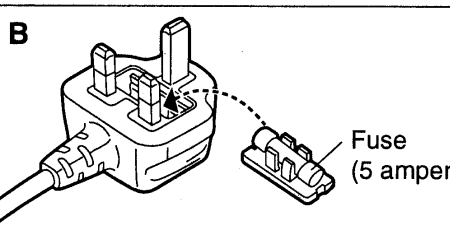
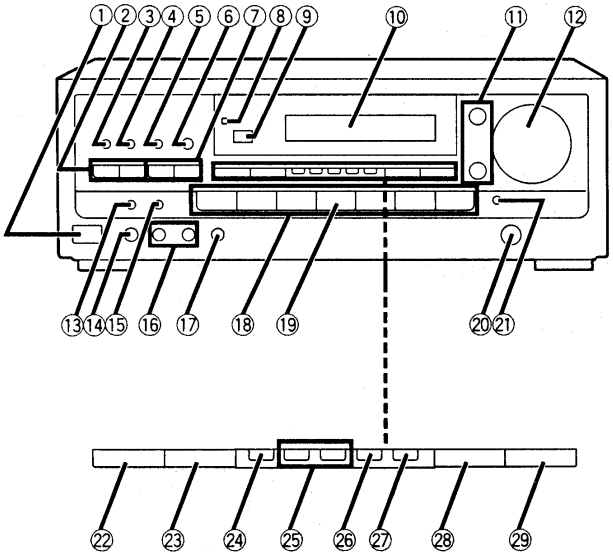


Figure B



■ Front Panel Controls

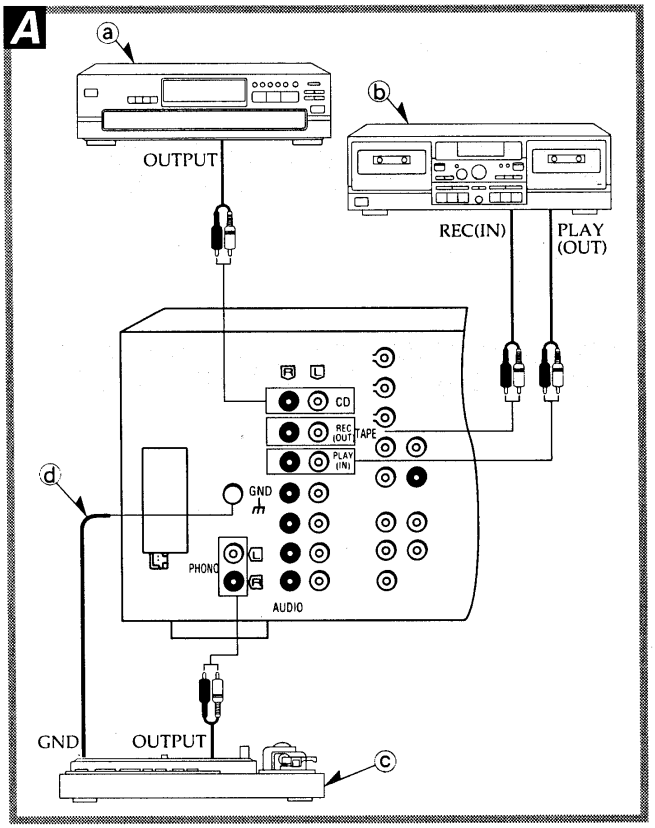


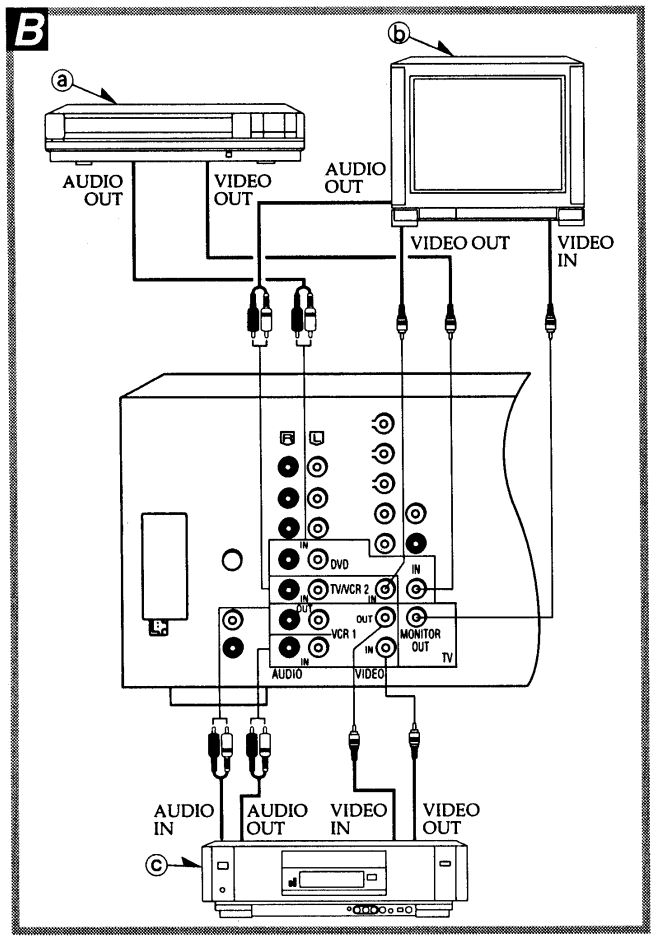
① Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② Tuning buttons (TUNING)
③ Band select button (BAND)
④ FM mode select button (FM AUTO/MONO)
⑤ Memory button (MEMORY)
⑥ Help/reset button (-HELP –RESET)
⑦ Preset channel buttons (PRESET)
⑧ "STANDBY" indicator (STANDBY)
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

⑨ Remote control signal sensor (SENSOR)
⑩ Display
⑪ Tone controls (BASS, TREBLE)
⑫ Volume control (VOLUME)
⑬ Sleep timer button (SLEEP)
⑭ Headphones jack (PHONES)
⑮ 6ch discrete input select button (6CH DISCRETE INPUT)
⑯ Speakers select buttons (SPEAKERS A, B)
⑰ Loudness ON/OFF button (LOUDNESS)
⑱ Input select buttons
⑲ Tape monitor button (TAPE MONITOR)
⑳ Balance control (BALANCE)
㉑ Muting button (MUTING)
㉒ DOLBY PRO LOGIC OFF ON button (OFF/ON)
㉓ DOLBY PRO LOGIC mode select button (DD PRO LOGIC)
㉔ RDS display mode select button (DISPLAY MODE)
㉕ PTY select buttons (PTY SELECT)
㉖ EON ON/OFF button (EON)
㉗ PTY search button (SEARCH)
㉘ Delay time adjust button (DELAY TIME)
㉙ Center mode select button (CENTER MODE)

■ Equipment Connections





Make sure that the power supply for all components has been turned off before making any connections.

To connect equipment, refer to the appropriate operating instructions.

Note

Do not place books, etc., on top of this unit or block the heat radiation vents in any way.

Stereo connection cable (not included) (L) White (R) Red

Video connection cable (not included)

Connecting audio equipment A

ⓐ CD changer (or CD player) (not included)

ⓑ Tape deck (not included)

ⓒ Turntable (not included)

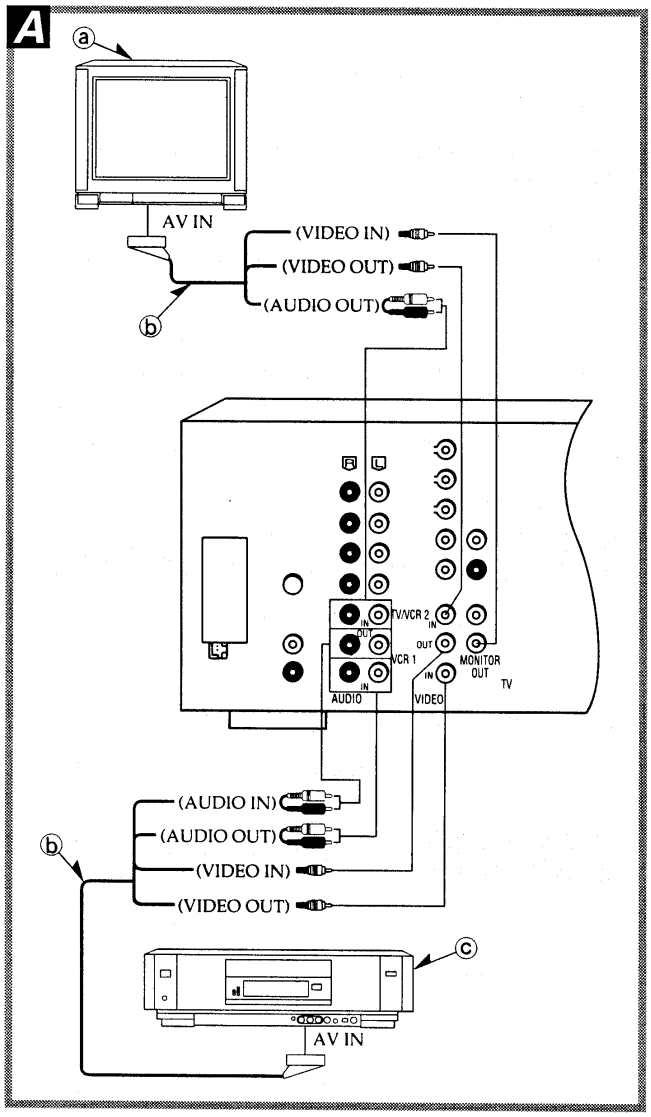
ⓓ Only for turntable with ground terminal

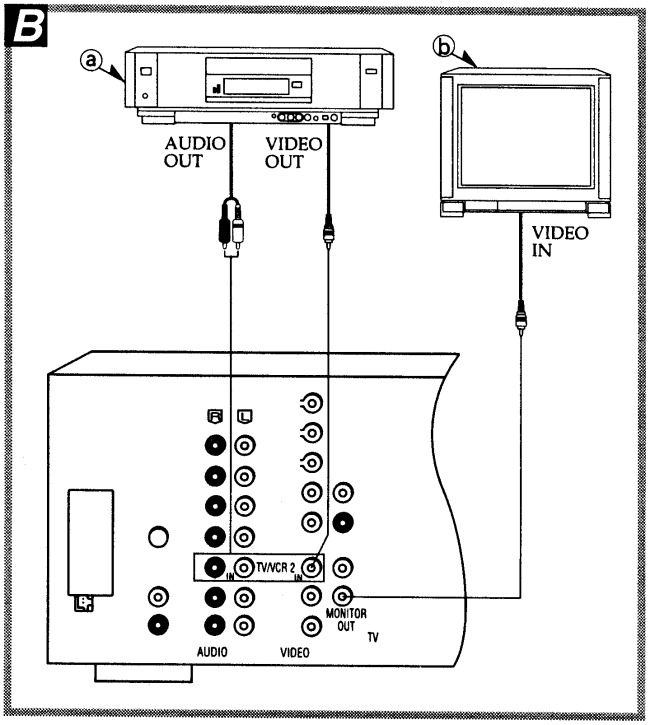
Connecting video equipment B

ⓐ Laser disc player (not included)

ⓑ TV (not included)

ⓒ VCR (not included)





Stereo connection cable
(not included)

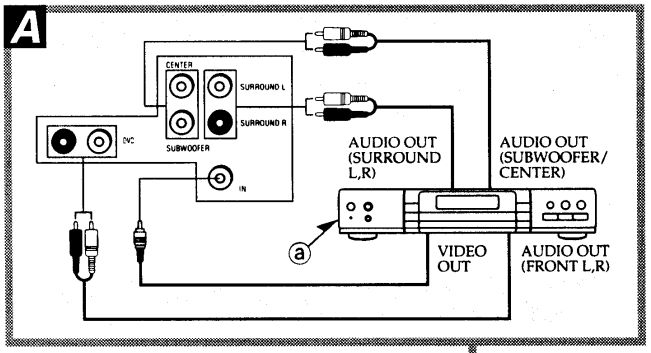
(L) White
(R) Red

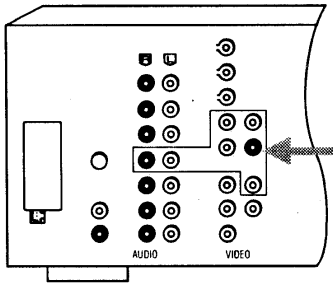
Video connection cable
(not included)

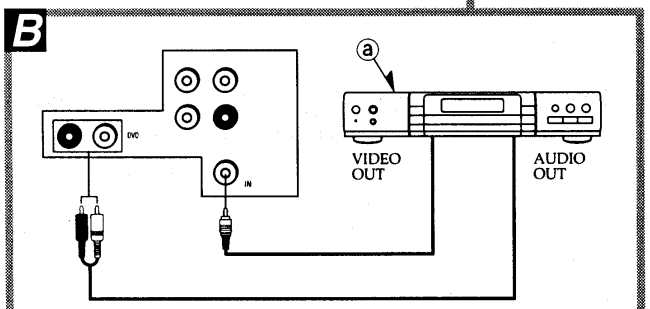
To connect a video equipment with 21 pin terminal A

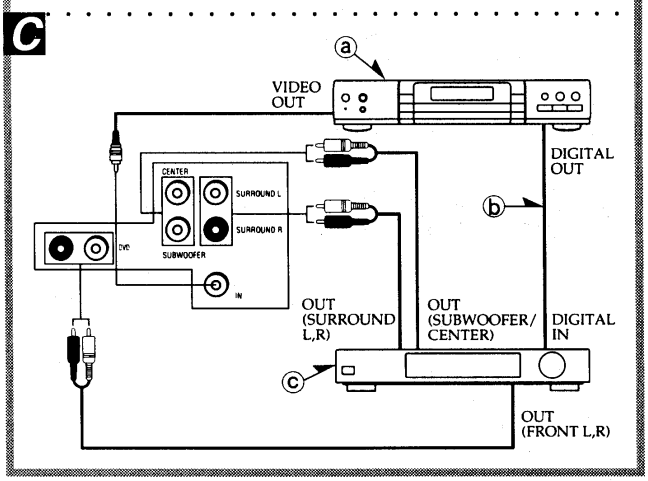
ⓐ TV (not included)
ⓑ 21 pin scart cables (not included)
ⓒ VCR (not included)

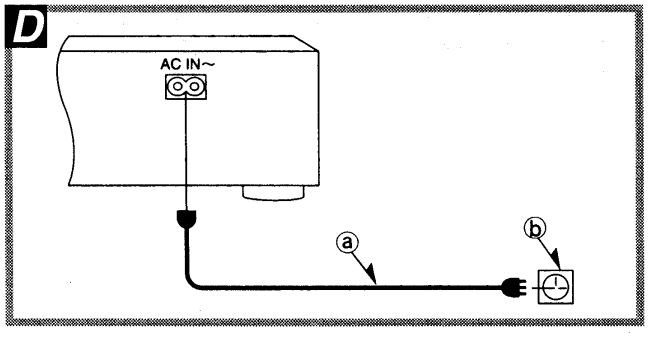
To connect a second VCR B











Stereo connection cable (not included) — (L) White (R) Red

Video connection cable (not included)

Connecting a DVD player

Connecting a DVD player with 6 channel discrete output A

ⓐ DVD player (not included)

Connecting a DVD player with 2 channel output B

ⓐ DVD player (not included)

You can enjoy 6 channel discrete sound by making these connections. C

ⓐ DVD player (not included)
ⓑ Optical digital cable (not included)
ⓒ AC-3 decoder (not included)

AC power supply cord D

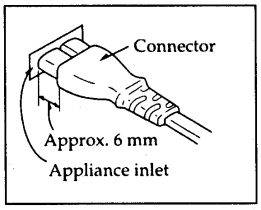
Connect this mains lead after all other cables and cords are connected.

BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE THE FOLLOWING CONNECTION. [(EB) area code model only]

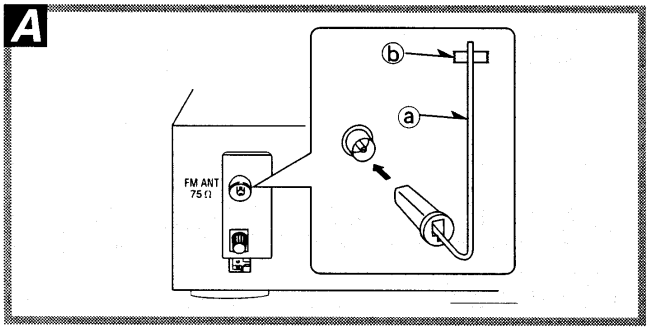
ⓐ AC mains lead (included)
ⓑ Household AC outlet

Insertion of Connector

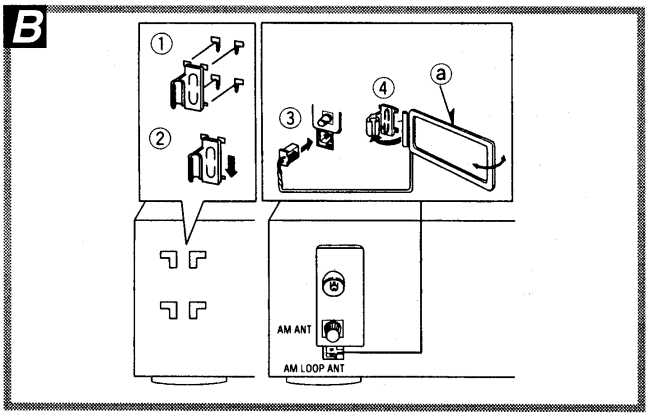
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector juts out as shown in the drawing.
However there is no problem using the unit.



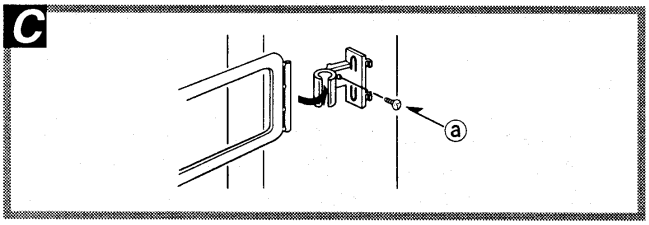
A



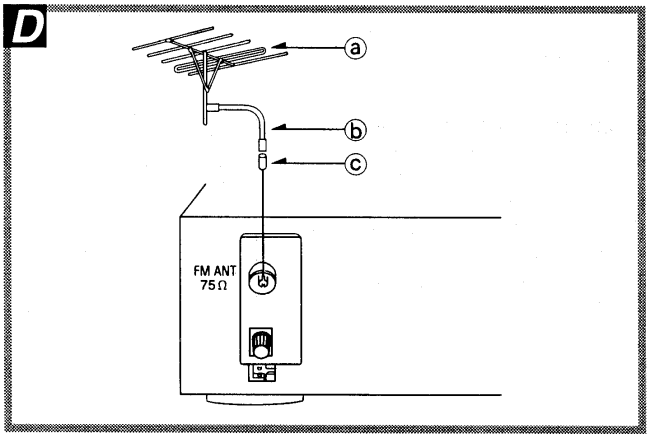
B



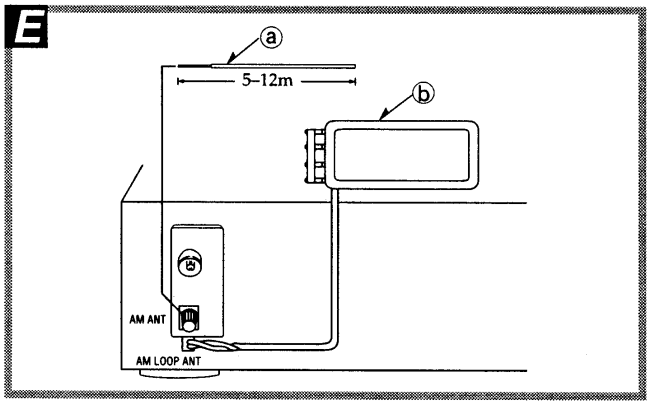
C



D



E



FM indoor antenna (included) A

This antenna is normally sufficient for reception of FM broadcasts.
ⓐ FM indoor antenna (included)
ⓑ Tape
Attach to a wall (using a tape) facing in the direction of best reception.

For best reception sound quality
An FM outdoor antenna is recommended.

AM loop antenna (included) B

This antenna is normally sufficient for reception of AM broadcasts. Install the AM antenna holder (included) at the rear panel of this unit and then attach the AM loop antenna to the AM antenna holder (facing in the direction of best reception).
ⓐ AM loop antenna (included)

Pay attention to the following points when mounting the antenna.
- Do not mount it horizontally (doing so will impair reception).
- Do not mount it close to power supply cords, speaker wires or metal surfaces (doing so will result in noise).
- Do not mount it close to a tape deck. When the tape deck is being used, chirping or beeping sounds may result.

When mounting the antenna to a column, a wall or rack C

Mount it vertically.
ⓐ Screw (included)

FM outdoor antenna (not included) D

The outdoor antenna should be used when using the unit in mountainous areas or in spaces enclosed by reinforced concrete where the FM indoor antenna (included) does not provide satisfactory reception.
Disconnect the FM indoor antenna if an FM outdoor antenna is installed.
ⓐ FM outdoor antenna (not included)
ⓑ 75 Ω coaxial cable (not included)
ⓒ Attachment plug (included)

Note

An outdoor antenna should be installed by a qualified technician only.

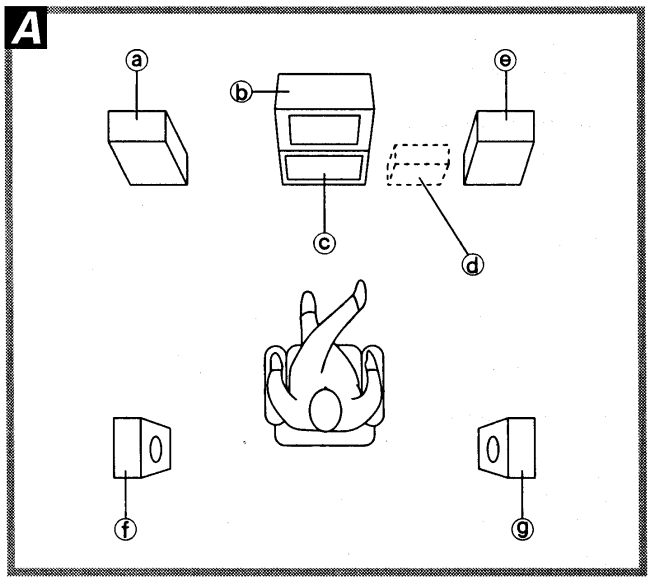
AM outdoor antenna (not included) E

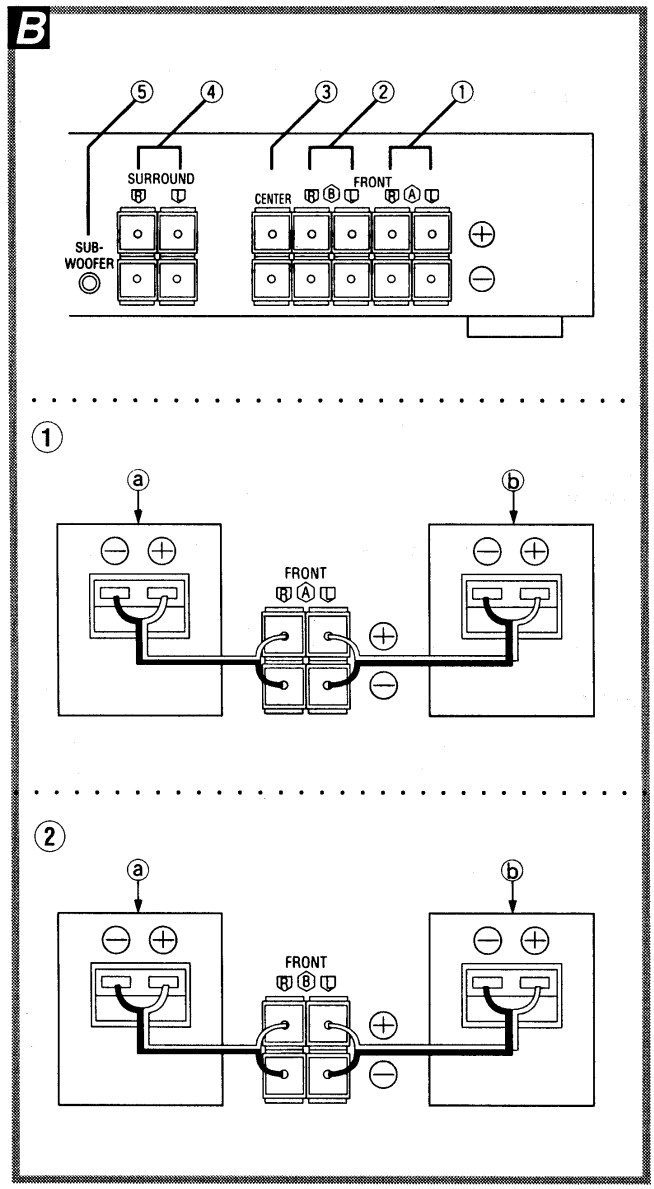
The outdoor antenna should be used when using the unit in mountainous areas or in spaces enclosed by reinforced concrete where the AM loop antenna (included) does not provide satisfactory reception.
ⓐ AM outdoor antenna (not included)
ⓑ AM loop antenna (included)
Stretch 5 to 12 m of vinyl-covered wire horizontally across a window frame or other convenient location, keeping it as high as possible from the ground.
When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.

Note

Be sure to connect the AM loop antenna even when an AM outdoor antenna is used.

■ Speaker Connections





Placement of speakers

ⓐ Front speaker (Left) (not included)
ⓑ TV (not included)
ⓒ Center speaker (not included)
ⓓ Subwoofer (not included)
ⓔ Front speaker (Right) (not included)
ⓕ Surround speaker (Left) (not included)
ⓖ Surround speaker (Right) (not included)

For front speakers

Place the front left/right speakers at both the left and right sides of the TV at seated ear height so that there is good coherency between the picture and sound.

For center speaker

Place the center speaker underneath or above the center of the TV. Aim the speaker such that it is pointed at the seating area.

For surround speakers

Place the surround speakers on the side of or slightly behind the listener, and about one meter higher than ear level.

For subwoofer

The subwoofer can be places in any position as long as it is at a reasonable distance from the TV.
Note that some experimentation in placement of the subwoofer can yield smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.

Connecting speakers

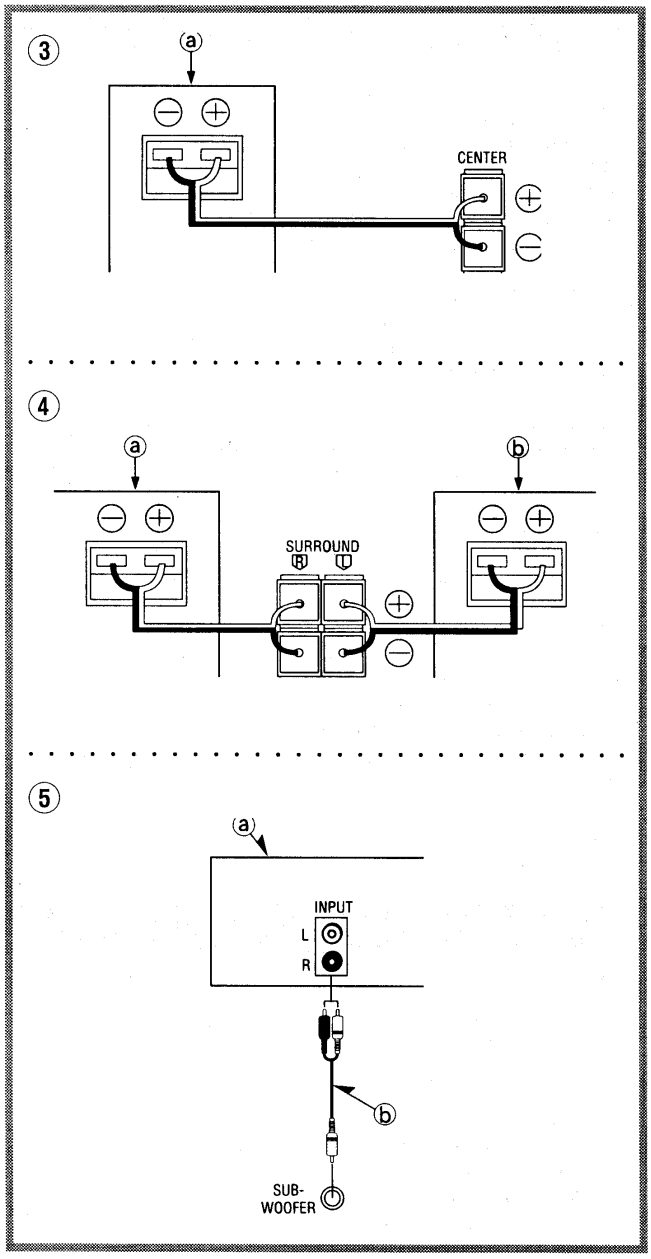
Speaker cable
(not included)

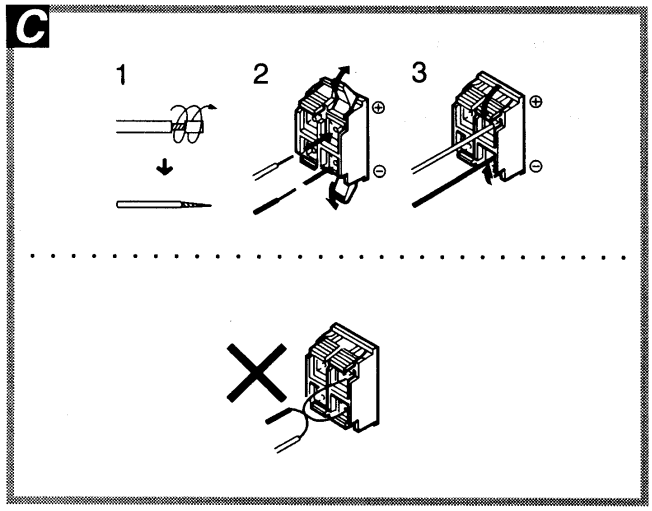
① Front "A" speakers
ⓐ Right speaker (not included)
ⓑ Left speaker (not included)

② Front "B" speakers
For connection to a second pair of speakers.
ⓐ Right speaker (not included)
ⓑ Left speaker (not included)

Speaker impedance: A or B 4-16 Ω
A and B 8-16 Ω

(Continued on next page)





③ Center speaker

ⓐ Center speaker (not included)
Speaker impedance: 8-16 Ω

④ Surround speakers

ⓐ Right speaker (not included)
ⓑ Left speaker (not included)

Note

1. Before sound can be heard, both surround speakers must be connected.
2. Do not connect the surround speakers to the front speaker terminals. The surround speakers may be damaged if connected to the front terminals.

Speaker impedance: 8-16 Ω

⑤ Subwoofer

ⓐ Subwoofer with built in amplifier (not included)
ⓑ Monaural-Stereo converter (not included)

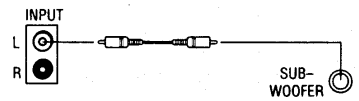
Note

This receiver has no amplifier section designed especially for the subwoofer.

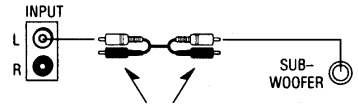
For your reference

Subwoofer can be connected in both the below ways.

(EX. 1)



(EX. 2)



Not connected

To connect a subwoofer which does not have a built-in amplifier

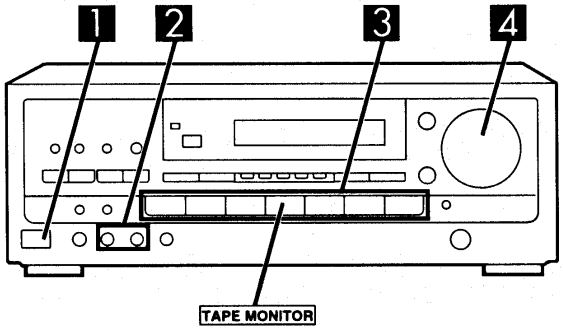
Connect an optional amplifier to the "SUBWOOFER" terminals of this unit and then connect a subwoofer to the speaker terminals of the amplifier.

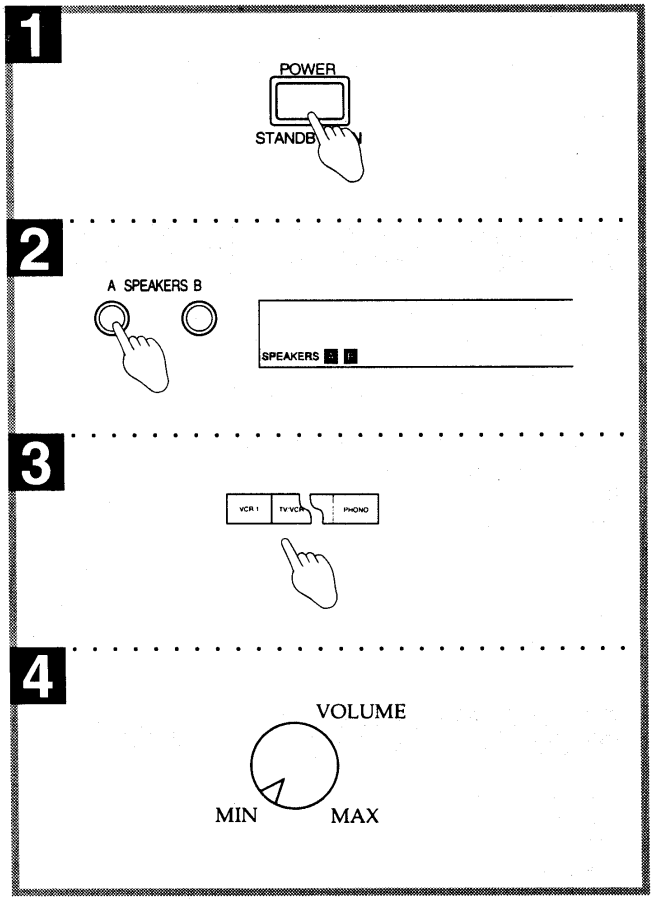
Connecting the speaker cables C

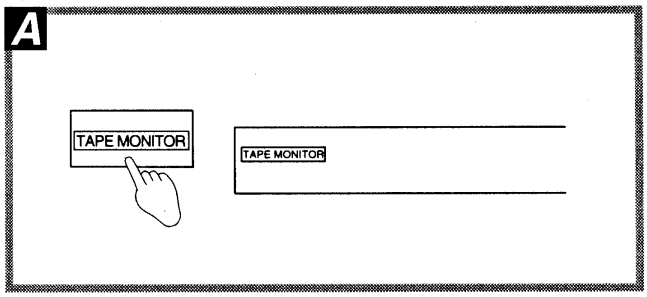
Note

To prevent damage to circuitry, never short-circuit positive (+) and negative (–) speaker wires.

■ Basic Operations







Before operation, set VOLUME to the "MIN" position.

1 Press POWER.

2 Press A and/or B to select the speakers system(s) to be used.

A and B refer to the speaker terminals at the rear of the unit.

If the button is pressed once more, the indicator will switch off and no sound will be heard from the speakers.

3 Press to select the desired source and start the desired source.
(Refer to the appropriate operating instructions for details.)

VCR 1: To watch video tapes (VCR 1)
TV/VCR 2: To watch TV or video tapes (VCR 2)
DVD: To watch DVD
TAPE MONITOR: To listen to cassette tapes. (The tape monitor indicator will light up.)
CD: To listen to compact discs
TUNER: To listen to radio broadcast
PHONO: To listen to phono discs

Note

To watch a video (or DVD) or the TV, set the TV to either the TV mode or VIDEO mode as indicated below.

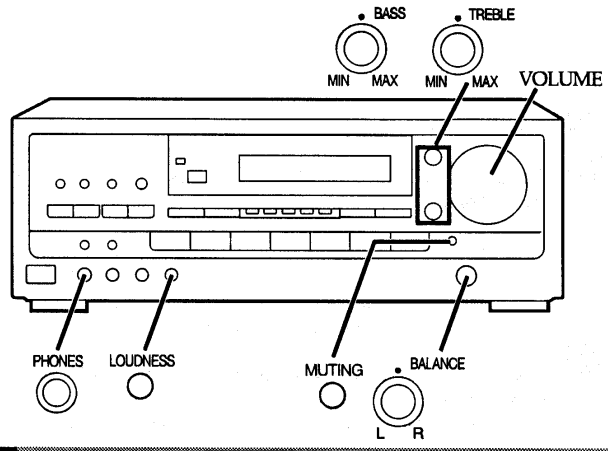
- **To enjoy videos (or DVD)**
  Set it to VIDEO mode.
- **To watch TV**
  Set it to TV mode.

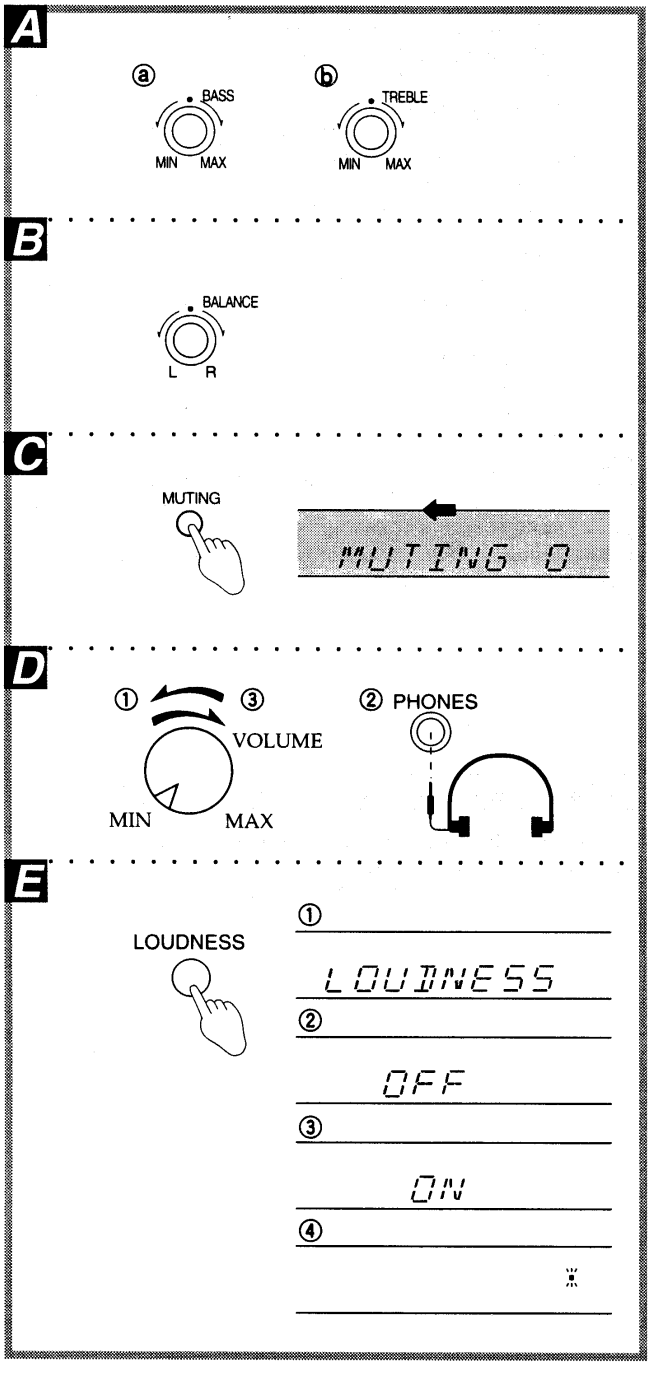
4 Turn VOLUME to adjust the volume level.

After listening is finished
Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.

When the tape monitor indicator is lit or flashing A

This indicates that the tape monitor function of this unit is ON.
To listen to sources other than a tape, be sure to press TAPE MONITOR and check the indicator goes out.





To adjust the tone quality A

ⓐ Turn BASS to adjust the low frequency sound.
ⓑ Turn TREBLE to adjust the high frequency sound.

To adjust the sound balance B

Turn BALANCE to adjust the left/right sound balance.

To mute the sound level C

Press MUTING.
The message "MUTING ON NOW" runs repeatedly from right to left across the display as long as the muting function is on.

Press once again to return to the previous volume level.

Note
When the receiver is turned off, the muting operation will be automatically cancelled.

To listen through headphones D

① Use volume to reduce the volume level.
② Connect the headphones (not included).
Plug type: 6.3mm stereo
③ Use VOLUME to adjust the volume level.

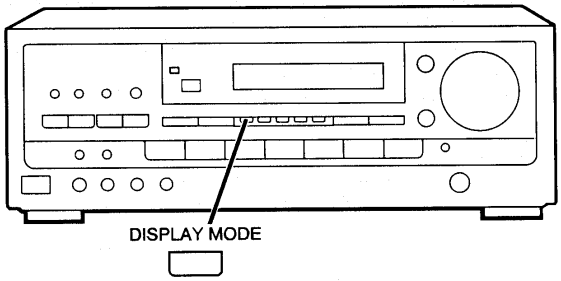
If you do not want sound from the speakers, press SPEAKERS button(s) and check the speaker indicator(s) goes out.
If a subwoofer is connected to your system, turn off power to it (or the subwoofer amp you are using) or lower the volume to the minimum level.

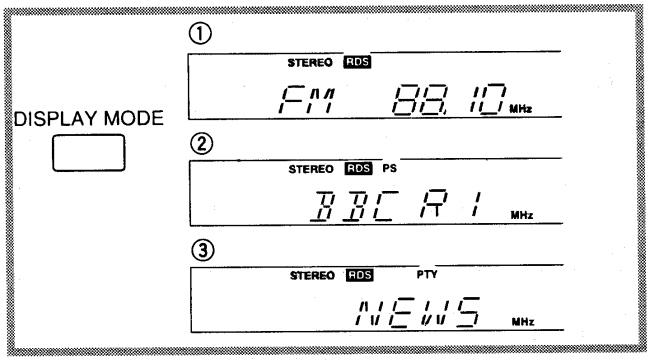
Note
Avoid listening for prolonged periods of time to prevent hearing damage.

To correct sound in case of low volume E

This button balances low volume sounds by boosting bass sound pressure.
Press LOUDNESS.
The message "LOUDNESS" will appear on the display, followed shortly thereafter by the current setting "OFF". (①-②)
Pressing the button again within 4 seconds will turn loudness control ON. When ON, "■"indication will light up in the display. (③-④)
To return to the previous condition, press once again, then "■" indication turn off.

■ Enjoying RDS Broadcasts





RDS (Radio Data System) is a multiplex broadcasting system which adds a variety of message signals to the audio signals of FM broadcasts.
This unit can utilize the following signals among the various RDS signals.

- **PI** (Program identification)
  Program identification signal consisting of a program code
- **PS** (Program service name)
  Name of the broadcast station
- **PTY** (Program type)
  Identification signal for program types such as news and sport
- **EON** (Enhanced other networks)
  RDS information provided on cross-referenced program services

Note

"PTY" and "EON" may not be available in some areas.
(Future function)

To change the display mode (PS/PTY display)

Carry out this operation while the FM broadcast being received provides the RDS service. ("RDS" will light up.)

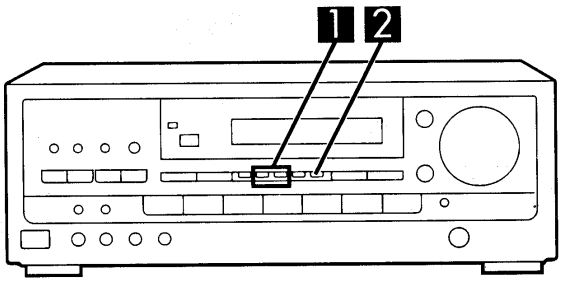
When this unit receives a PS signal in an RDS broadcast, the name of the broadcast station can be shown on the display.

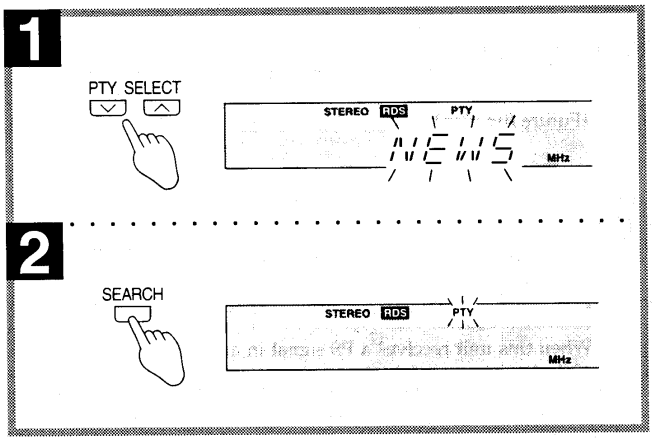
Furthermore, while the PTY signal is being received, the name of the type of program currently being broadcast can be shown on the display.

Press DISPLAY MODE.
Each time you press the button, the display will change as follows.
① frequency display → ② PS display → ③ PTY display

Note

1. If the FM broadcast being received does not provide the RDS service, the frequency will remain on the display in displays ② and ③.
2. If a PTY signal is not being received, "NO PTY" will be displayed in display ③ for a moment and will then change to the frequency.





To listen to a program of a particular type, such as news or sport (PTY search/EON tuning)

The PTY search and EON tuning are carried out with respect to FM broadcast stations that have preset into the memory. Make sure that "Memory Presettings" on page 15 or 16 have been completed before carrying out these operations.

PTY search

Carry out this operation while listening to an FM broadcast.

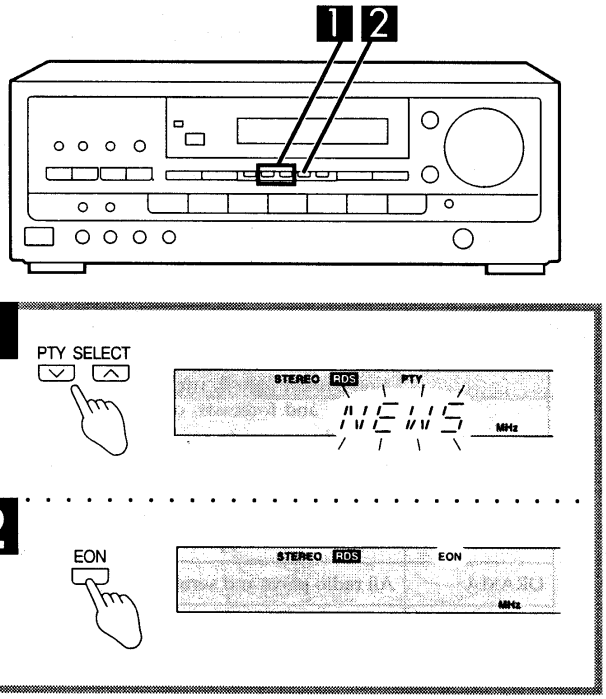
When you wish to listen to a particular type of program, a program of that type can be searched.

1 **Press PTY SELECT (∨) or (∧) to select the desired program type.**
Each time you press these buttons, the PTY display will change in sequence.

2 While PTY display is flashing (approx. 10 seconds)
Press SEARCH.
The PTY search will begin. ("PTY" will flash.)

When the desired type of program is located:
The receiver will switch to the preset channel it just found and will display the broadcast frequency. (If the PS or PTY display was displayed when the search started, the receiver will switch back to the original display after displaying the frequency of the found station.) If you start the PTY search again, the receiver will start searching for another program from that point.

If the desired type of program is not found:
"NO PTY" will be displayed for a moment and then the receiver will return to the original display. (If the PS or PTY display was displayed when the search started, the receiver will display the frequency for about 3 seconds before returning to the original display.)



EON tuning

If the broadcast you are receiving is sending EON signals, you can pick up other information from cross-referenced program services such as PS and PTY. This receiver makes use of PTY signals to let you get more out of it.

Carry out this operation while the FM broadcast being received provides the RDS service. ("RDS" will light up.)

1 **Press PTY SELECT (∨) or (∧) to select the desired program type.**
Each time you press these buttons, the PTY display will change in sequence.

2 While PTY display is flashing (approx. 10 seconds)
Press EON.
("EON" will light up.)

The receiver will switch over to the type of program you selected or it will go on reception standby and wait until a program of that type starts, at which time it will switch over automatically.

Note

Be aware of the fact that you will turn EON tuning OFF if, while the receiver is on reception standby, you operate the tuner,change the input source or turn the unit OFF.

When "NO EON" is displayed:

It means the broadcast you are presently receiving does not provide EON services.

To check the program type while on reception standby:

Press either PTY SELECT (∨) or (∧).
The program type last selected will be displayed for approximately 2 seconds. ("EON" will flash.)
Be careful however. If you press one of the buttons again while the program type is being displayed, you will turn EON tuning OFF.

To cancel EON tuning:

Press EON.
"EON" will go out.

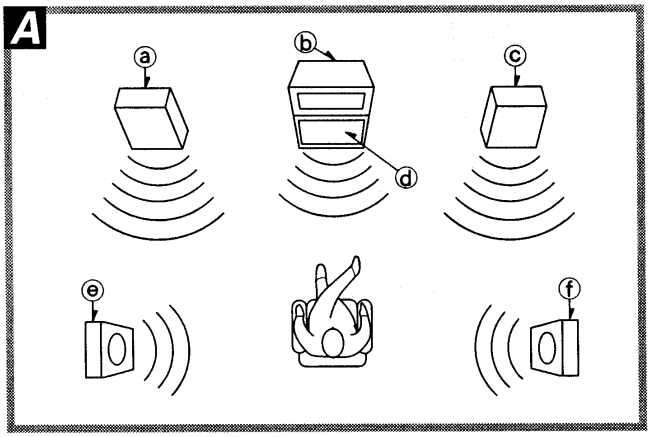
About the PTY display

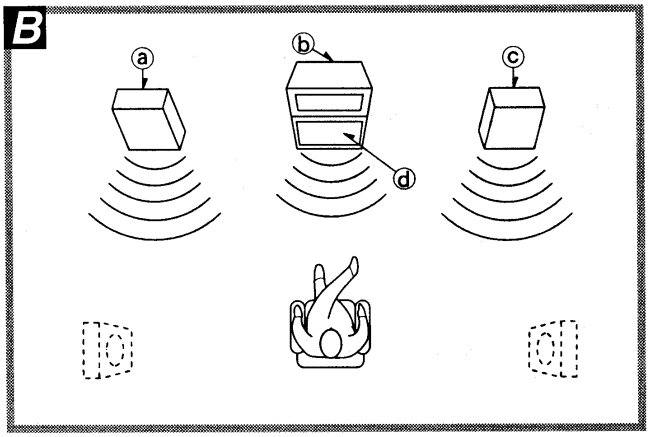
There are a total of 15 PTY displays on this unit. The display changes in order each time the PTY SELECT (∨) or (∧) is pressed. The table below shows the order in which the display changes, and also gives an explanation of each display.

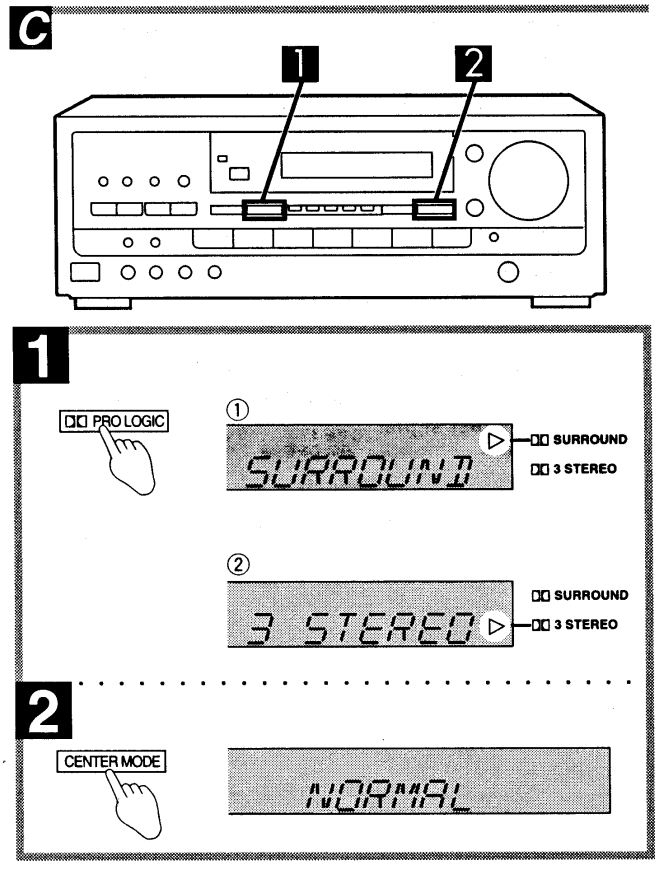
Display	Explanation
NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical program expanding or enlarging upon the news, generally in different presentation style or concept, including documentary debate, or analysis.
INFO	Program whose purpose is to impart advice in the widest sense, including meteorological reports and forecasts, consumer affairs, medical help, etc.
SPORT	Program concerned with any aspect of sport.
EDUCATE	Program intended primarily to educate.
DRAMA	All radio plays and serials.
CULTURE	Programs concerned with any aspect of national or regional culture, including religious affairs, philosophy, social science, language, theater, etc.
SCIENCE	Programs about the natural sciences and technology.
VARIED	Used for mainly speech-based programs, usually of a light-entertainment nature not covered by above categories. Examples are: quizzes, panel games, personality interviews, comedy and satire.
POP M	Commercial music which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
M.O.R. M	(Middle of the Road Music). Common term to describe music considered to be "easy-listening", as opposed to Pop, Rock or Classical. Music in this category is often, but not always, vocal, and usually of short duration (<5 min.).
LIGHT M	Classical Musical for general, rather than specialist, appreciation. Examples of music in this category are instrumental music and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the above categories. Particularly used for specialist music, of which Jazz, Rhythm & Blues, Folk, Country, and Reggae are examples.

After "OTHER M" is displayed, the display returns to "NEWS".

■ Enjoying Sound with DOLBY PRO LOGIC







Dolby Pro Logic lets you enjoy movie software(video tapes and laser discs) in your own home with the same powerful stereophonic effect found in movie theaters. This unit has two Dolby Pro Logic modes: SURROUND and 3 STEREO.

SURROUND A

By reproducing the feeling of depth and movement of sound, video software or compact discs recorded with Dolby Surround provide the listener with a feeling of presence like that of a movie theater.

ⓐ Front speaker (Left)
ⓑ TV
ⓒ Front speaker (Right)
ⓓ Center speaker
ⓔ Surround speaker (Left)
ⓕ Surround speaker (Right)

3 STEREO B

You can enjoy audio/video sources with clear sound, more presence and a good feeling of orientation. 3 STEREO can be used with stereo sources not encoded with DOLBY SURROUND.

ⓐ Front speaker (Left)
ⓑ TV
ⓒ Front speaker (Right)
ⓓ Center speaker

Setting the center mode and adjusting speakers output level C

Note

- When ready to adjust speakers output level, situate yourself away from the speakers as you normally do when listening.
- First turn ON the speakers with the SPEAKERS A or B button on the receiver.
- If front speakers volume is unbalanced, adjust the balance with the BALANCE knob.
- You cannot adjust the output level of subwoofer with this receiver.

1 Press DD PRO LOGIC to turn on the Dolby Pro Logic system and select the desired mode.

When the button is pressed, the Dolby Pro Logic mode is displayed for approximately 1 second only.
① SURROUND mode
② 3 STEREO mode
Pressing it again changes the Dolby Pro Logic mode.

2 Press CENTER MODE to select the correct center mode.

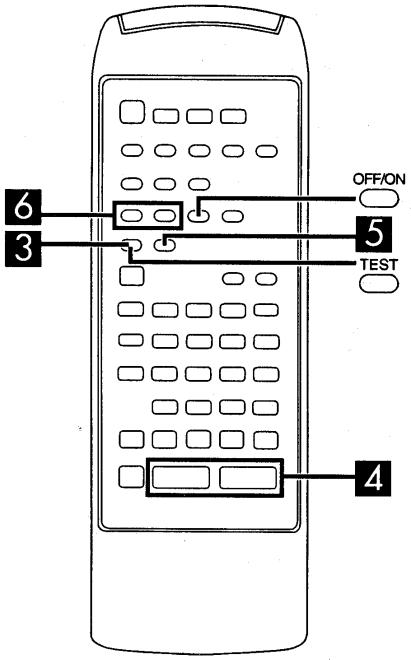
When the button is pressed, the current center mode is displayed.
Pressing it again changes the center mode.

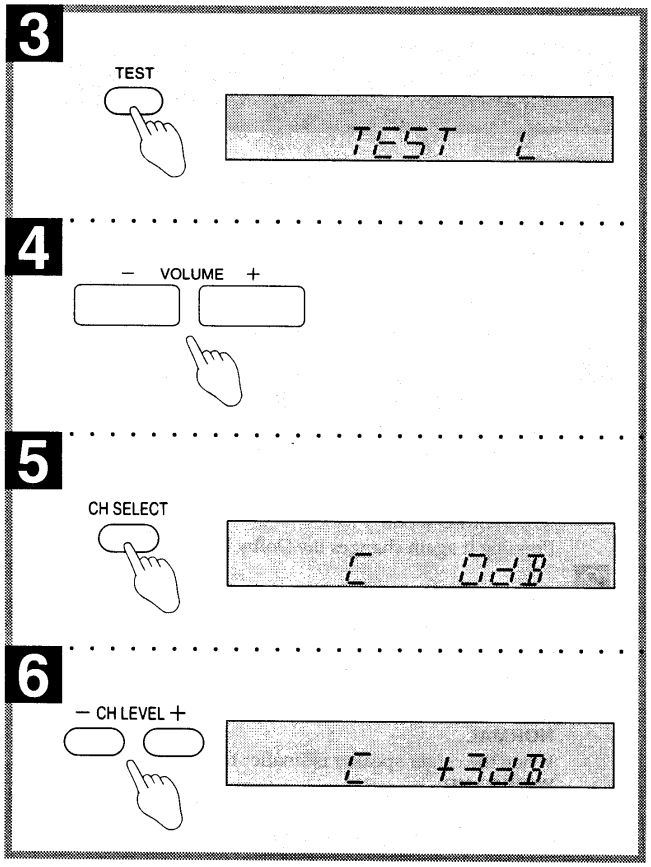
NORMAL
When the center speaker is smaller than the front speakers.
WIDEBAND
When the center speaker is the same size or larger than the front speakers.
PHANTOM SURROUND only
When no center speaker is connected.

Note

In the PHANTOM mode, the sound which would have been sent to the center speaker will be divided equally between both the left and right front speakers.

(Continued on next page)





3 by remote control only

Press TEST to output a test signal.

The speaker outputting the test signal is displayed while the test is running.

L : Front speaker (Left)
C : Center speaker
R : Front speaker (Right)
S : Surround speakers

For SURROUND mode

L → C → R → S

In the PHANTOM mode, the center speaker is OFF, so the test signal is not output and "C" is not displayed.

For 3 STEREO mode

L → C → R

4 by remote control

Press VOLUME (–) or (+) to set the volume level normally used for enjoying the source.

The following steps are for setting the output level of the front speakers and the center/surround speakers to the same listening level.

5 by remote control only

Press CH SELECT to select the center or surround speakers.

6 by remote control only

Press CH LEVEL (–) or (+) to adjust the output level.

Adjust the output level of each speaker from the listening position until they are all identical.

–: Decrease the output level.
+: Increase the output level.
Output level can be varied within a range of –12 dB to +12 dB with front speaker output level serving as the zero point.

Note

1. The test signal is output only by the speaker you are now adjusting and does not repeat the sequence until adjustments are complete.
2. Remember you cannot adjust output level of the surround speakers if you selected the 3 stereo mode in step 1.

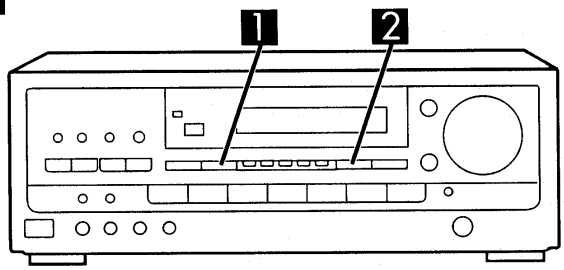
To stop the test signal

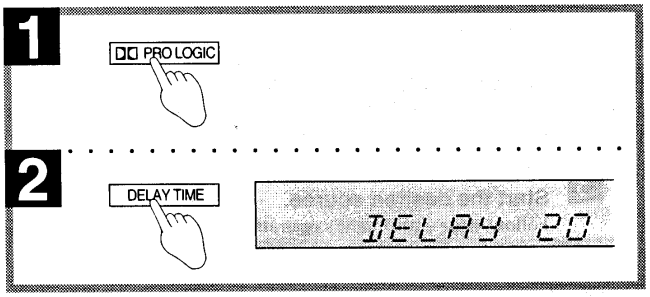
Press TEST.

To turn off the Dolby Pro Logic systems

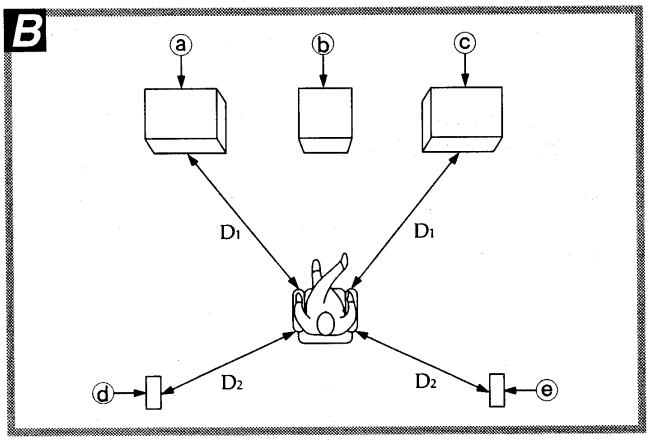
Press OFF/ON.
Press once again to turn it on.

A

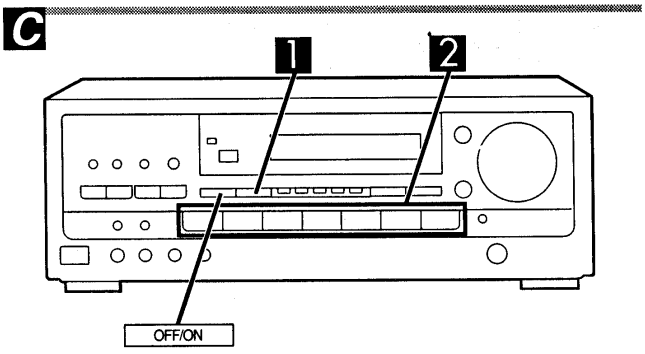


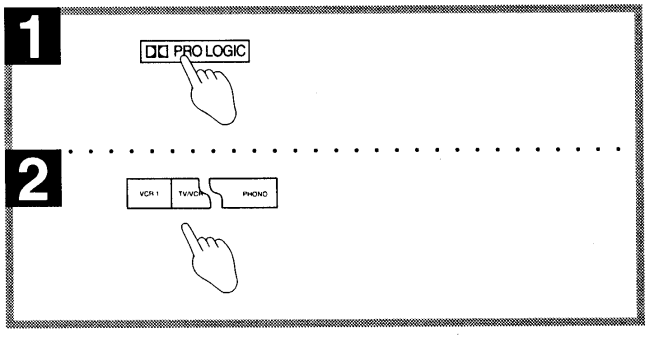


B



C





Adjusting the delay time A

When enjoying with SURROUND only

Adjust the sound from the surround speakers untill the proper effect is produced.

1 **Press DD PRO LOGIC to turn on the Dolby Pro Logic system and select the SURROUND mode.**

2 **Press DELAY TIME to set to the suitable time.**
When the button is pressed, the current delay time is displayed.
Pressing it again changes the delay time.

Each time the button is pressed, the delay time will increase by 5 ms within a range of 15 ms to 30 ms.

The standard setting is 20 ms.

To calculate the delay time B

ⓐ Front speaker (Left)
ⓑ Center speaker
ⓒ Front speaker (Right)
ⓓ Surround speaker (Left)
ⓔ Surround speaker (Right)

D_1: Distance from front speakers
D_2: Distance from surround speakers

- **If D_1 is equal to or less than D_2**
  Set to 15ms.
- **If D_2 is less than D_1**
  Start at 15ms and increase by 5 ms for every 1.5 m of difference between D_1 and D_2.

Enjoying with SURROUND or 3 STEREO C

1 **Press DD PRO LOGIC to turn on the Dolby Pro Logic system and select the desired mode.**
When the button is pressed, the Dolby Pro Logic mode is displayed.
Pressing it again changes the Dolby Pro Logic mode.

2 **Select the desired source and start the desired source.**

Note

When employing SURROUND, use software recorded in Dolby Surround.

To turn off the Dolby Pro Logic systems
Press OFF/ON.

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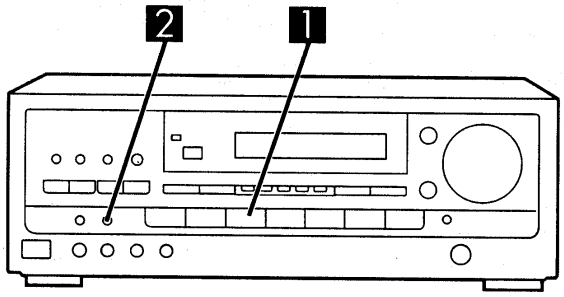
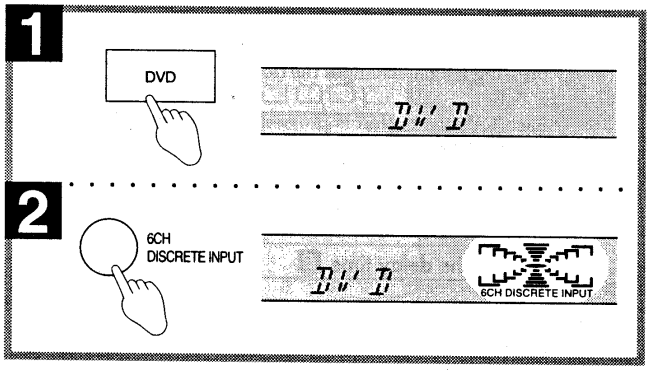
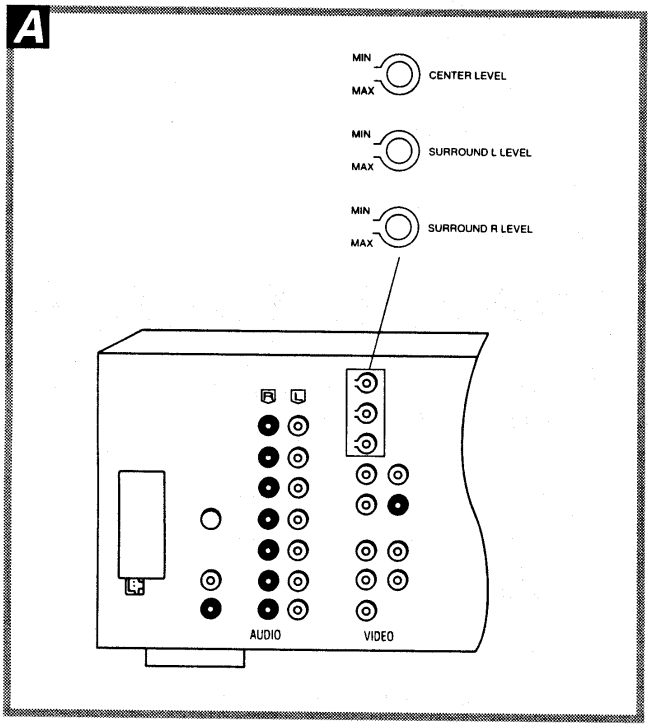
■ Enjoying Sound with 6 Channel Discrete







This receiver can play back 6 channel discrete sound.
It has jacks for connecting to components with 6 channel discrete output, such as DVD player.

6 channel discrete output makes playback sound more real by adding depth, movement, position and other characteristics to the field of sound.
It will make you feel as if you were at the movie theater when in your own home.

To enjoy 6 channel discrete output sound

Of cource, you have to connect a DVD player or other component that has 6 channel discrete output capabilities.

1 **Press DVD.**

2 **Press 6CH DISCRETE INPUT.**

If you press this button while another source (CD, PHONO, etc.) is selected, the receiver switches the source to DVD and engages the 6CH DISCRETE INPUT mode.

3 **Start the desired source.**

Follow your equipment's operating instructions.

Note

You cannot select Dolby Pro Logic mode while in the 6CH DISCRETE INPUT mode. If you try, the message "NOT POSSIBLE IN 6CH DISCRETE INPUT" will appear on the display.

To adjust the input level (CENTER LEVEL/SURROUND L LEVEL/SURROUND R LEVEL) A

When connected to a DVD player or other component with 6 channel discrete output, you can adjust input level for the center and surround (L) and (R) channels from these controls on the rear panel.

Turn CENTER LEVEL to adjust the input level of the center channel.

Turn SURROUND L LEVEL to adjust the input level of the surround (L) channel.

Turn SURROUND R LEVEL to adjust the input level of the surround (R) channel.

■ Operation Checks and Main Component Replacement Procedures

NOTE

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**
4. **Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.**

• Contents

• Checking Procedures for each P.C.B. Page.

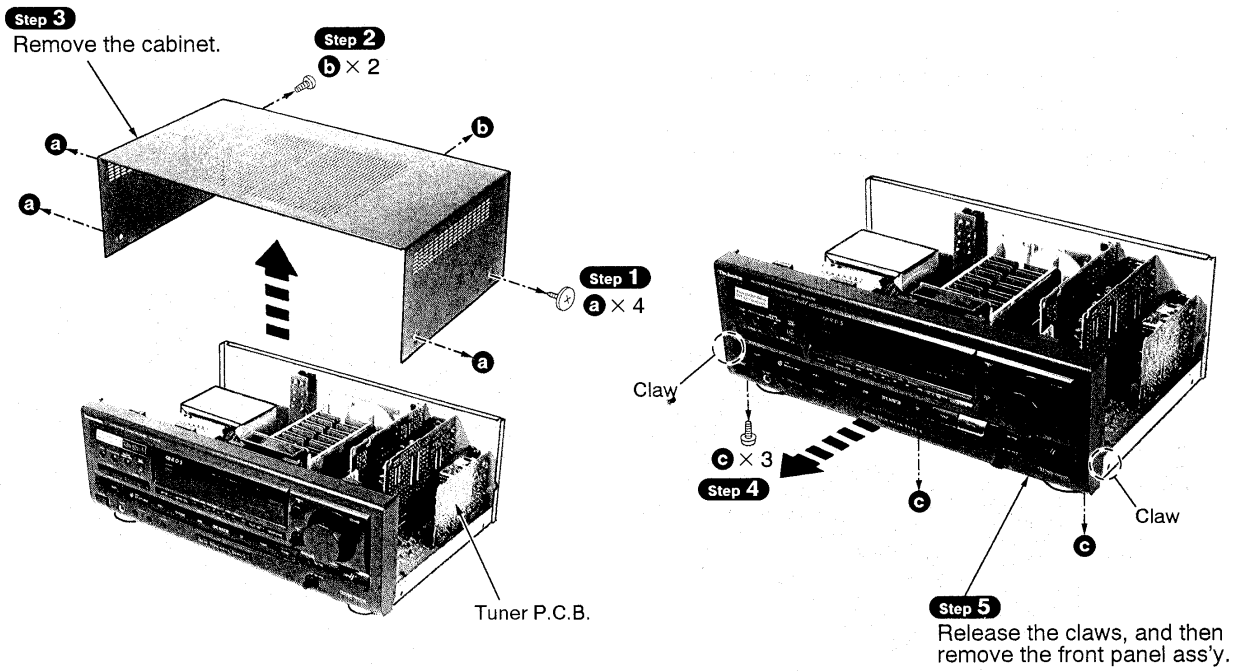
1. Checking for the tuner P.C.B. and FL P.C.B.. ..... 19,20.
2. Checking for the IN/OUT terminal P.C.B. and surround P.C.B.. ..... 20,21.
3. Checking for the main P.C.B.. ..... 21.

• Main Component Replacement Procedures

1. Replacement for the power IC and regulator transistor. ..... 22,23.

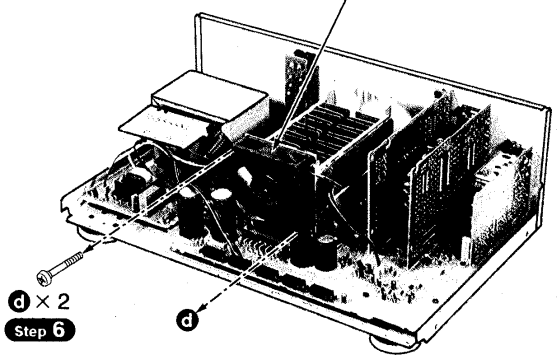
■ Checking Procedure for each P.C.B.

1. Checking for the tuner P.C.B. and FL P.C.B.



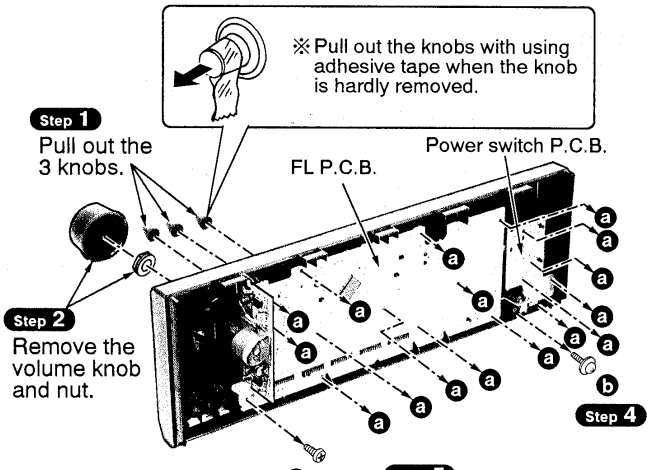
• Check the tuner P.C.B. as shown above.

Step 7
Remove the fan ass'y.

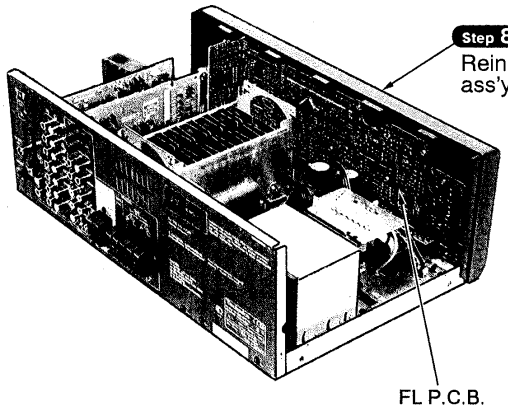


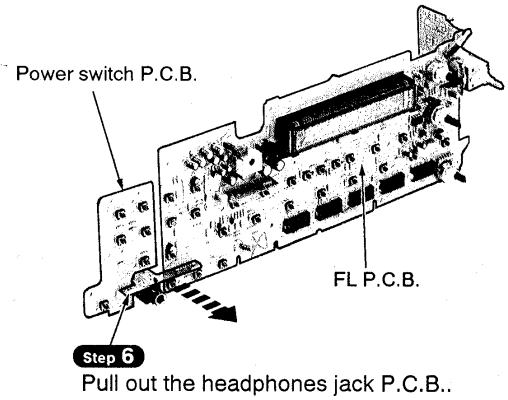
To remove each P.C.B.

※ Pull out the knobs with using adhesive tape when the knob is hardly removed.



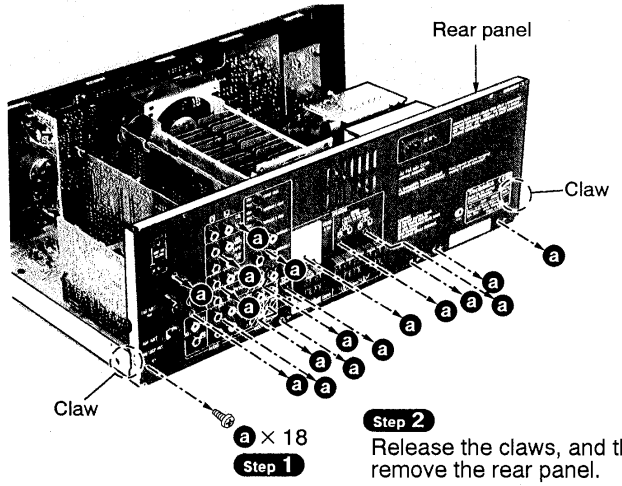
• **Check the FL P.C.B. as shown below.**

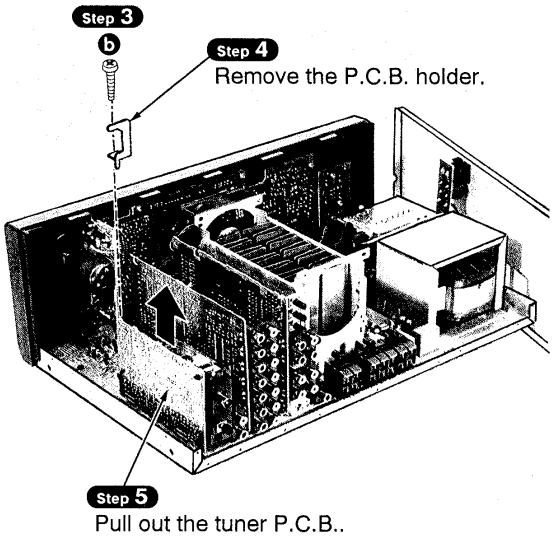




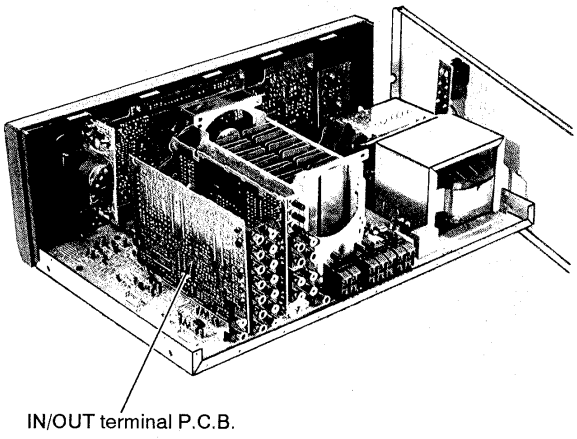
2. Checking for the IN/OUT terminal P.C.B. and surround P.C.B.

• Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 19.

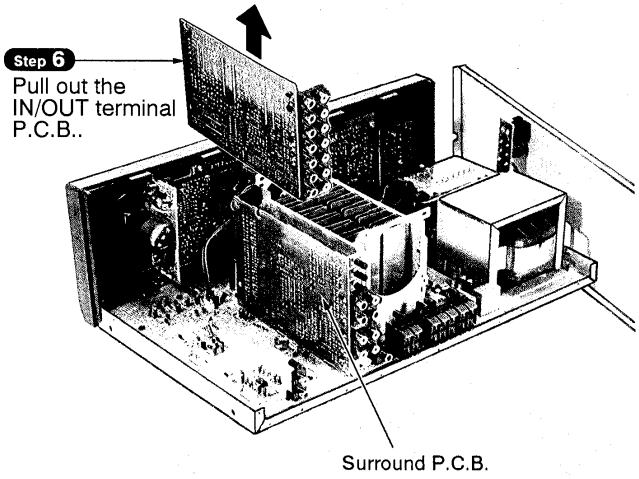




• **Check the IN/OUT terminal P.C.B. as shown below.**

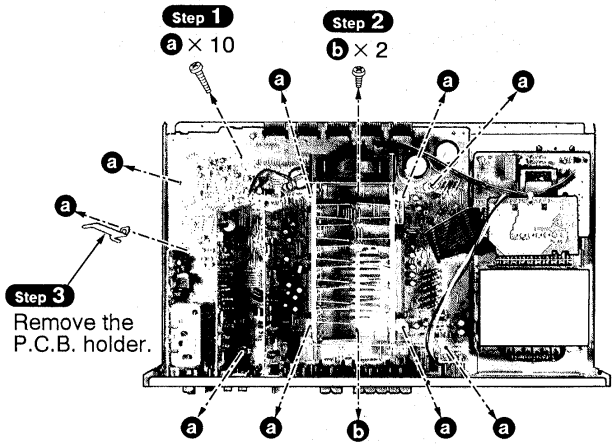


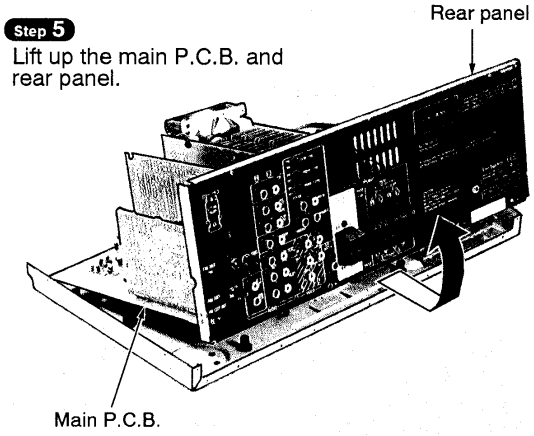
• **Check the surround P.C.B. as shown below.**

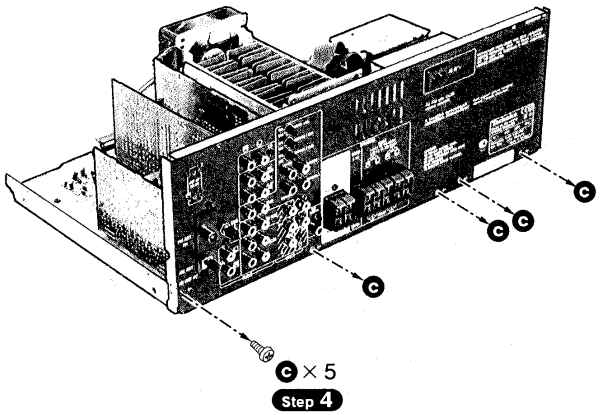


3. Checking for the main P.C.B.

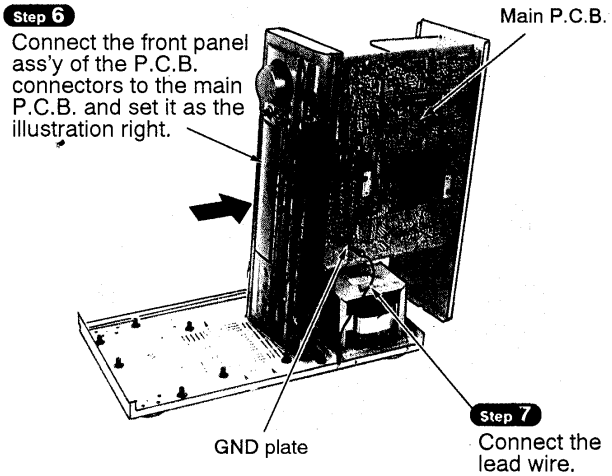
• Follow the Step 1 ~ Step 5 of the item 1 in checking procedure for each P.C.B. on page 19.







• **Check the main P.C.B. as shown below.**

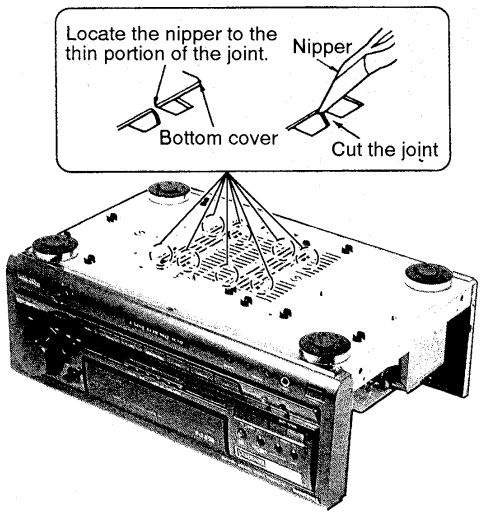

Step 6
Connect the front panel ass'y of the P.C.B. connectors to the main P.C.B. and set it as the illustration right.
Main P.C.B.
GND plate
Step 7
Connect the lead wire.

■ Main Component Replacement Procedures

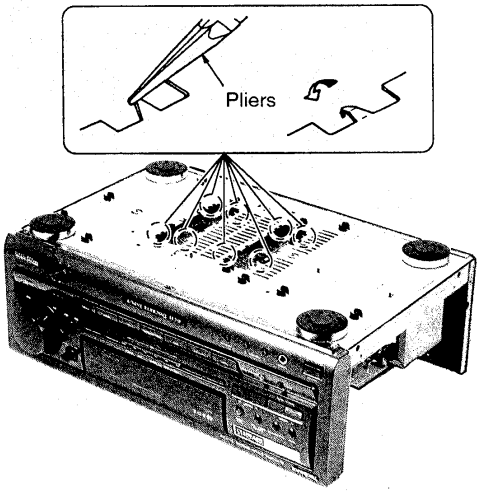
1. Replacement for the power IC and regulator transistor

• Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 19.

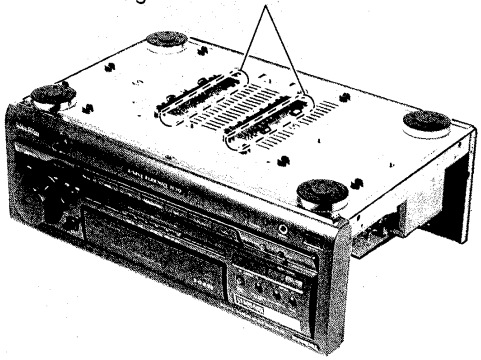
Step 1 Cut the joints as shown below. (8 points)

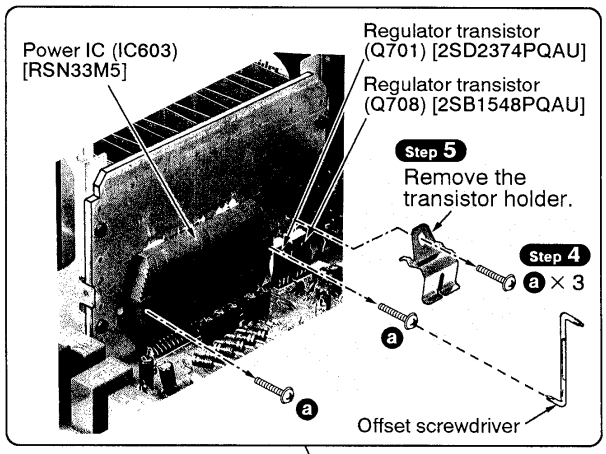


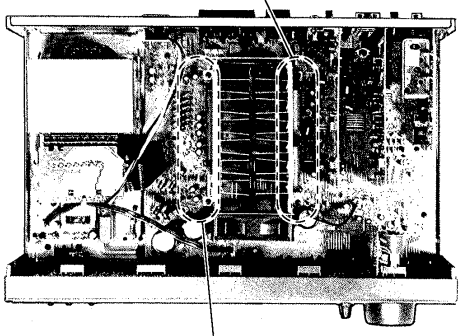
Step 2 Fold the joints. (8 points)

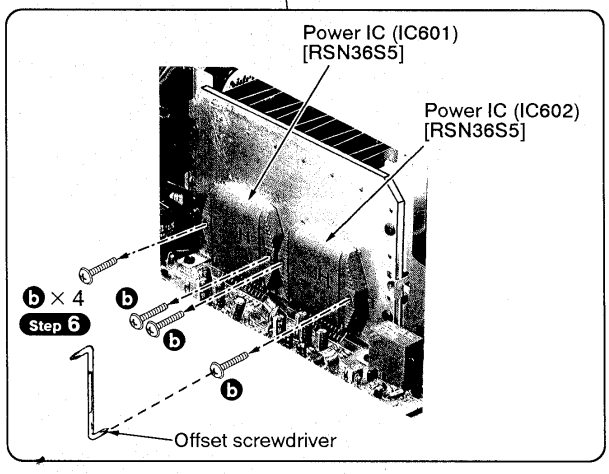


Step 3
Unsolder the terminals of power IC and regulator transistor.







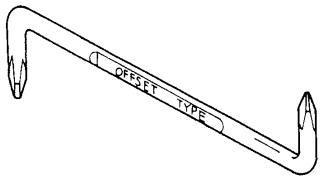


CAUTION

1. After replceing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (ⓐ, ⓑ) after replacing the power IC and regulator transisitor. Otherwise, the heat rabiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

——OFFSET SCREWDRIVER——

- The PROTO offset screwdriver No.34-¼ is recommended for use in the application above.



No.	⊕	← L →
34¼	1 & 2	4¾″

- The address of PROTO International Sales is as follows.

PROTO®

International Sales

International Sales Office
Stanley-Proto Industrial Tools
14117 Industrial Park Blvd.
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Fax: 61-3-894-1173
Phone: 61-3-878-9244

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Stanley Works Japan
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Shinjuku-ku
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Canada, L7L 5R6
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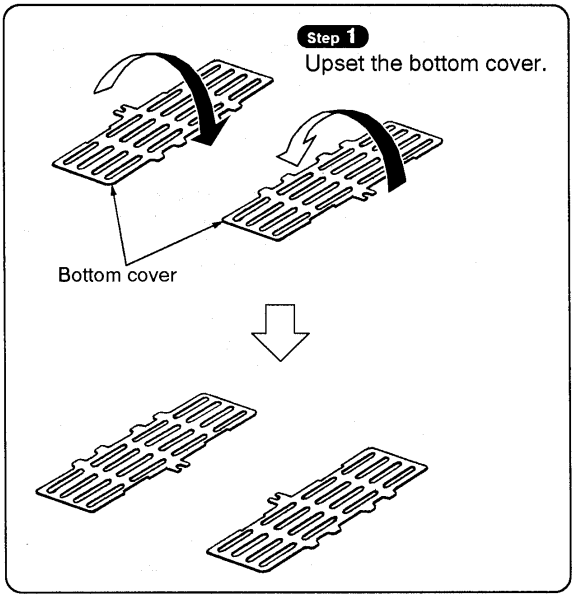
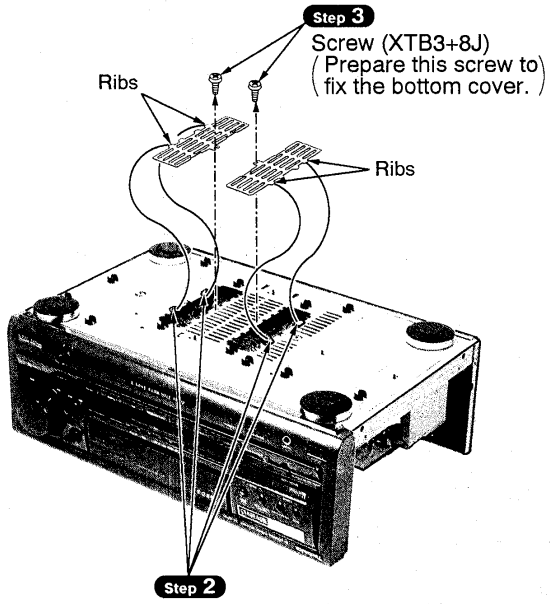
Middle East, Mediterranean & Africa
Stanley-MEMA
Cory House The Rlng
Bracknell Berkshire
RG 12 1A2
England
Fax: 44-344-485-526
Phone: 44-344-51813

Installation of the bottom cover after replacement





■ Fan Motor Troubleshooting

The Model SA-AX710 employ fan motor error sensing electronics.
If the cooling fan is not operating and "OVER LOAD" is displayed on the FL display, check the fan motor and its driving circuit.

"OVER LOAD" is displayed on the FL display.

Is the air cooling path blocked or the fan motorjammed by any external obstacle?
YES → Remove the obstacle.
NO

Remove the fan from the unit.

Is the fan motor's DC resistance 20 ~ 30 ?
NO → Fan motor failure
Short circuit : DC resistance below 5
Open circuit : DC resistance over 1k
YES

Reinstall the fan on the unit.

Are the terminal voltage of Q772 and Q773 normal in both and inactive states of the fan motor? (see table1.)
NO → Check the integrity of Q772, Q773 and the fan motor driving circuit. (see fig.1)
YES

(Voltage table)

		fan. off	fan. on
Q772	E	−15V	−15V
	C	0V	−14.9V
	B	−14.9V	0V
Q773	E	0V	−8.0V
	C	−15V	−15V
	B	0V	−8.5V

(Table 1)

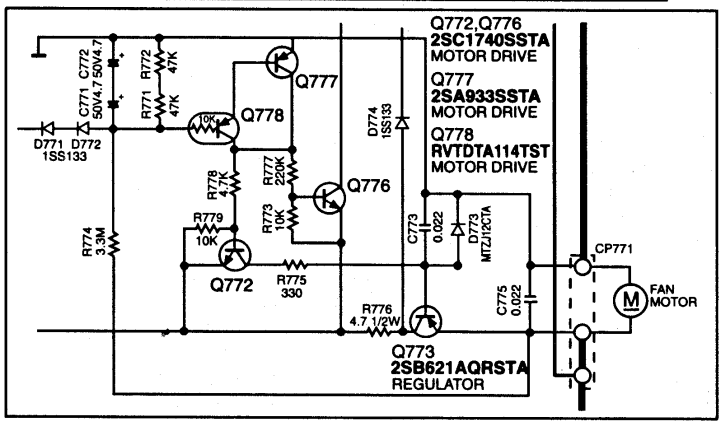


fig.1

Is an audio signal present at pins ⑦ and ⑩ of IC601 or pins ⑦ and ⑩ of IC602
NO → The power IC (IC601 or IC602) is defective.
YES

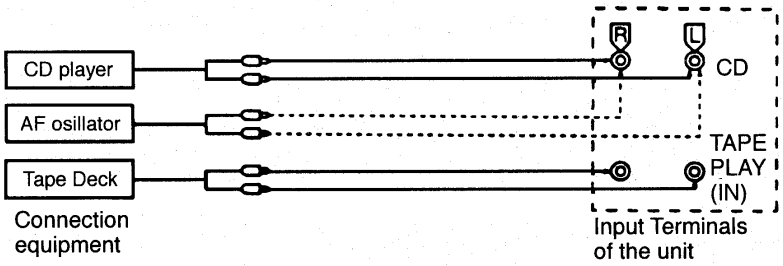
The fan motor, power ICs and fan driver are functioning normally.

■ Troubleshooting

This unit has test points on each circuit board block for use in troubleshooting.

CONNECTION

Connect either a CD player, tape deck or AF oscillator to the input terminals of the unit.



REQUIRED ITEMS

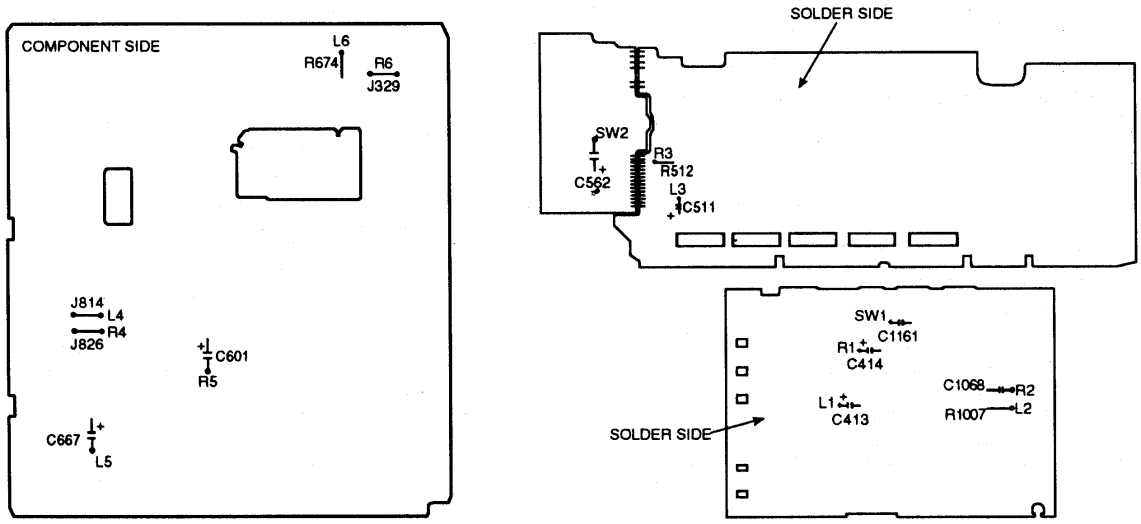
1. Testing with a CD player ——— Test disc (SZZP1054C / first progarm, 1kHz, 0dB)
2. Testing with a tape deck ——— Test tape (QZZCLA / 315Hz, 0dB)
3. Testing with a AF oscillator ——— Set the output at 500Hz, 200mV
4. Oscilloscope (min. 10MHz) ---------- To measure the output waveform at the test points.

TEST PROCEDURE FOR AMPLIFIER CIRCUIT

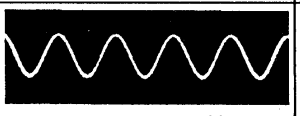
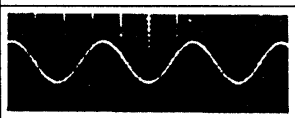
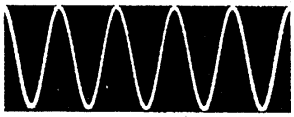
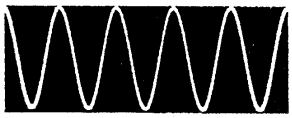
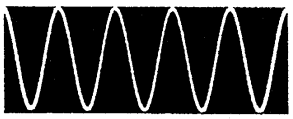
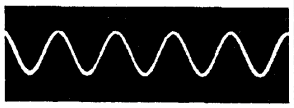
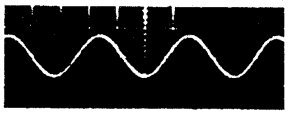
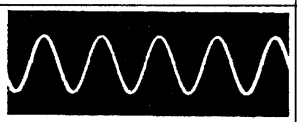
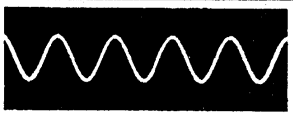
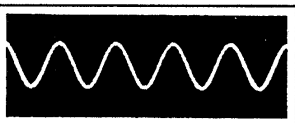
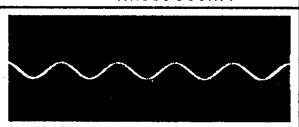
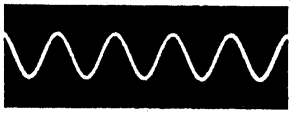
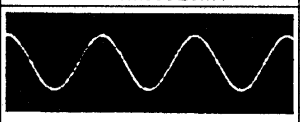
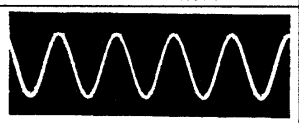
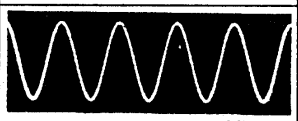
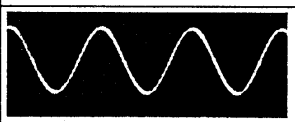
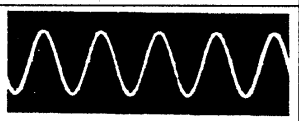
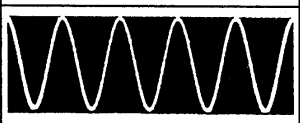
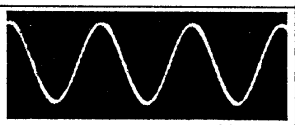
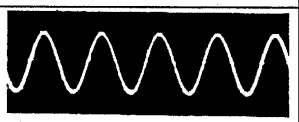
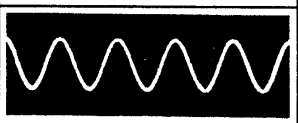
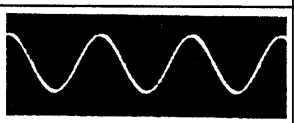
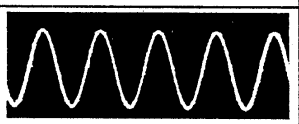
When the CD player AF oscillator is connected:	When the tape deck is connected:
Power on the unit. Set the input selector button of the unit to the "CD" postion. Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.	Power on the unit. Set the input selector button of the unit to the "TAPE MONITOR" postion. Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.
Run the CD player (SZZP1054C / first program 1kHz, 0dB) or Run the AF oscillator (Oscillator output at 500Hz, 200mV)	Run the tape deck (QZZCLA 315Hz, 0dB)
Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order: (L1,R1)=(L2,R2)=(L3,R3)=(L4,R4)=(L5,R5)=(L6,R6). Refer to page 10.	

Note: Connect the '+' probe of the oscilloscope to each test point and the '–' probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT



NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
L1/R1	 0.5msec 5V	 1msec 500mV	1msec 500mV	Input selector block IC402 & area
SW1	 0.5msec 0.1V	 1msec 20mV	 1msec 20mV	Sub-Woofer amplifier IC1151& area
L2/R2	 0.5msec 5V	 1msec 500mV	 1msec 500mV	Dolby pro logic block IC1001 & IC1002 & area
SW2	 1msec 25V	 1msec 25mV	 1msec 25mV	Master volume block VR501 & area
L3/R3	 0.5msec 500mV	 1msec 50mV	 1msec 100mV	Master volume block VR501 & area
L4/R4	 0.5msec 500mV*	 1msec 500mV	 1msec 1V	Tone control block IC511 & area
L5/R5	 0.5msec 200mV*	 1msec 200mV	 1msec 500mV	Power limiter block Q581 to Q584 & area
L6/R6	 0.5msec 10V*	 1msec 10V	 1msec 10V	Main amplifier block IC601, IC603 & area

Measurement conditions. Volume control (VR501), Treble control (VR512) and Bass control (VR511) positions : ◔
*Volume control position (VR501) for these test : ◔

CHECKING PROCEDURE FOR SURROUND CIRCUIT

Outputting surround signal normally requires that opposite phase signals be applied to both the left and right channels. However, this unit incorporates a service mode, allowing the surround circuit to be tested using in-phase signals.

When the CD player or AF oscillator is connected :

Power on the unit.
Set the input selector button of the unit to the "CD" position.

↓

While pressing both VCR1 button and Speakers button, press the "Power" button.

↓

The letter "SURROUND" flash on the FL display.

↓

Ⓐ

When the tape deck is connected :

Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" position.

↓

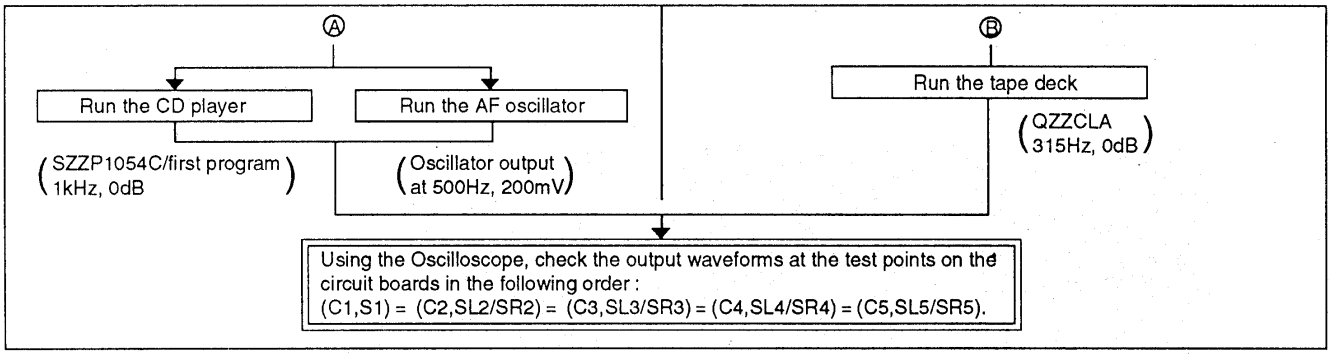
While pressing both VCR1 button and Speakers button, press the "Power" button.

↓

The letter "SURROUND" flash on the FL display.

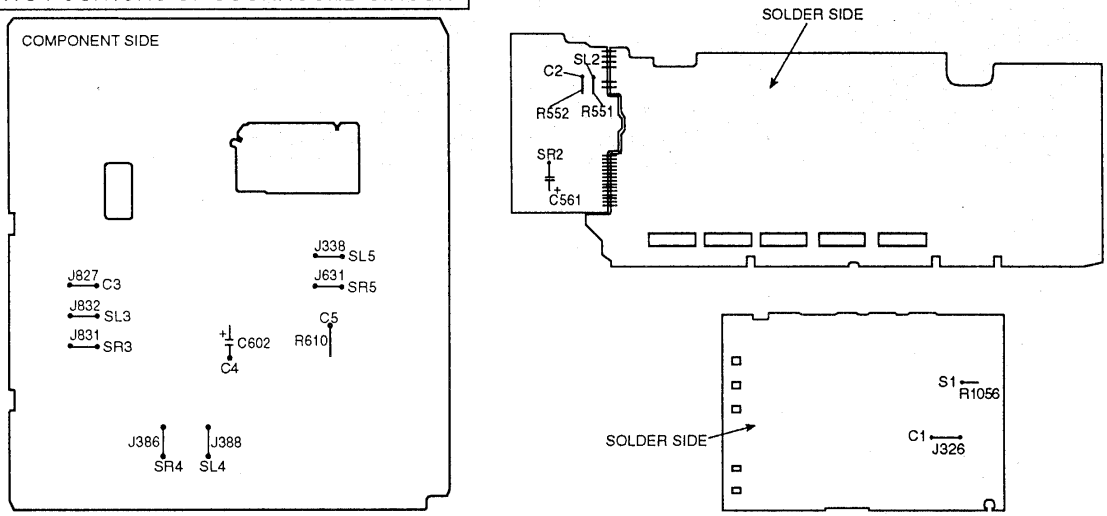
↓

Ⓑ

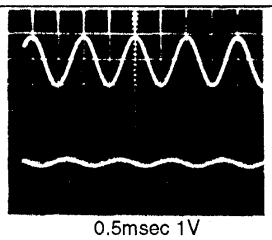
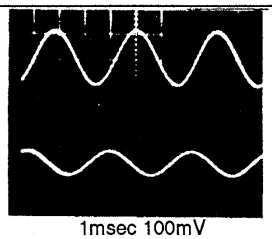
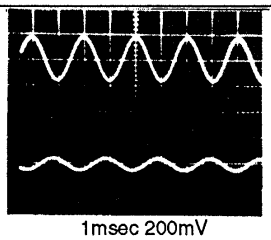
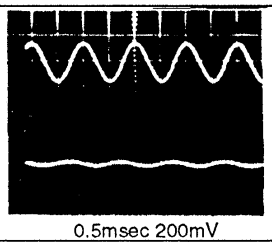
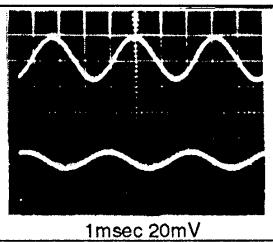
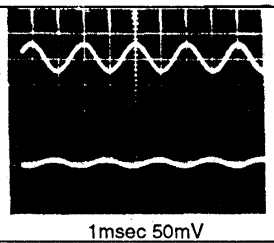
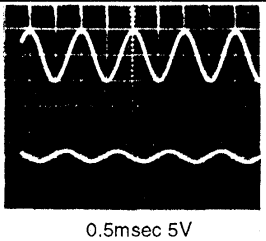
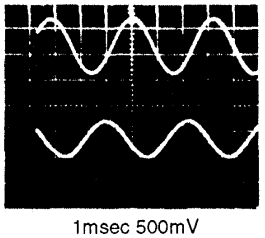
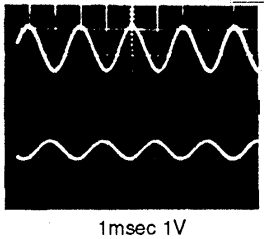

Ⓐ
Run the CD player
Run the AF oscillator
(SZZP1054C/first program 1kHz, 0dB)
(Oscillator output at 500Hz, 200mV)
Ⓑ
Run the tape deck
(QZZCLA 315Hz, 0dB)
Using the Oscilloscope, check the output waveforms at the test points on the circuit boards in the following order :
(C1,S1) = (C2,SL2/SR2) = (C3,SL3/SR3) = (C4,SL4/SR4) = (C5,SL5/SR5).

• To exit the service mode, power off the unit.

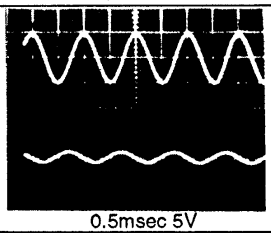
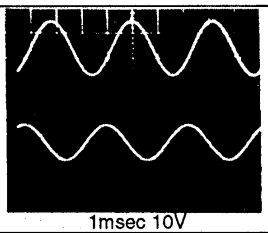
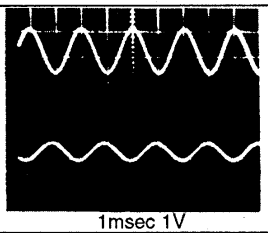
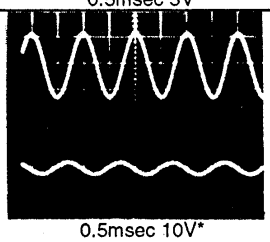
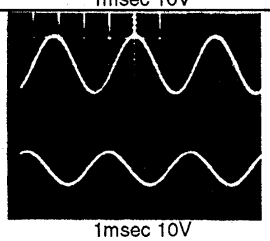
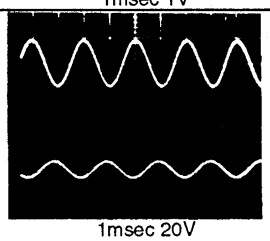
TEST POINTS POSITIONS OF SOURROUND CIRCUIT



NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

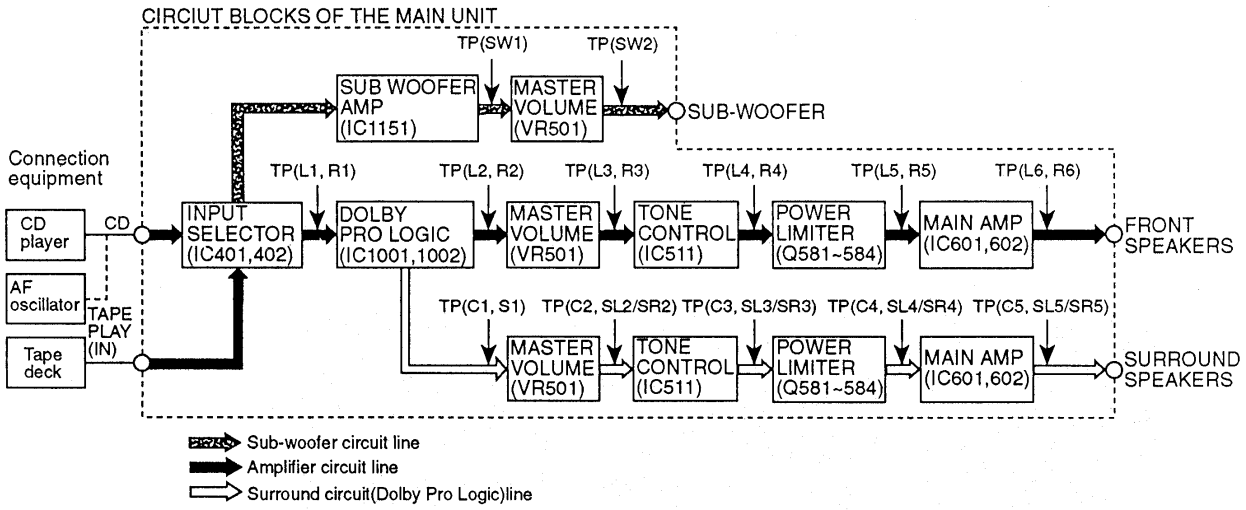
TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C1 S1	 0.5msec 1V	 1msec 100mV	 1msec 200mV	Dolby pro logic block IC1002 & area
C2 SL2/SR2	 0.5msec 200mV	 1msec 20mV	 1msec 50mV	Master volume block VR501 & area
C3 SL3/SR3	 0.5msec 5V	 1msec 500mV	 1msec 1V	Tone control block IC551, IC552 & area

NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C4 SL4/SR4	 0.5msec 5V	 1msec 10V	 1msec 1V	Power limiter block Q551 to Q552 & area
C5 SL5/SR5	 0.5msec 10V*	 1msec 10V	 1msec 20V	Main amplifier block IC602 & area

Measurement conditions. Volume control (VR501), Tremble control (VR512) and Bass control (VR511) positions : ⊙
*Volume control position (VR501) for these test : ◐

CIRCUIT BLOCKS



■ OVERLOAD DETECTION FUNCTION

The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time, "OVERLOAD" scrolls across the FL display.
In this state, all keys remain in operative; if any key is pressed, "SWITCH OFF POWER" scrolls across the FL display.
If an overload occurs, immediately power off the unit and check the speaker connection, venting holes and cooling fans. After fixing any faults, power on the unit again and check for proper operation.
If no defects are found, or if the unit remains overload after it is power on again, check the circuit for faults.

■ Schematic Diagram

	Page
A TUNER CIRCUIT	30, 31
B IN/OUT TERMINAL CIRCUIT	32 – 34
C FL CIRCUIT	35 – 37
D HEADPHONES CIRCUIT	37
E POWER SWITCH CIRCUIT	37
F SURROUND CIRCUIT	38, 39
G MAIN CIRCUIT	38 – 42
H TRANSFORMER CIRCUIT	42
I POWER SUPPLY CIRCUIT	42
J AC IN CIRCUIT	42

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- S946 : Power "STANDBY ⏻/ON" switch. (POWER, STANDBY ⏻/ON)
- S948 : Muting switch. (MUTING)
- S950 : FM mode select switch. (FM AUTO/MONO)
- S951 : Band select switch. (BAND)
- S952 : Tuning switch. (∨)
- S953 : Tuning switch. (∧)
- S954 : Sleep switch. (SLEEP)
- S955 : Memory switch. (MEMORY)
- S956 : Preset tuning switch. (∨)
- S957 : Preset tuning switch. (∧)
- S958 : Help/reset switch. (-HELP –RESET)
- S965 : 6ch discrete input select switch. (6CH DISCRETE INPUT)
- S970 : PTY search switch. (SEARCH)
- S971 : EON ON/OFF switch. (EON)
- S972 : PTY select switch. (∧)
- S973 : PTY select switch. (∨)
- S974 : RDS display mode select switch. (DISPLAY MODE)
- S975 : DVD switch. (DVD)
- S976 : Delay time adjust switch. (DELAY TIME)
- S980 : Speakers select switch. (SPEAKERS A)
- S981 : Speakers select switch. (SPEAKERS B)
- S982 : Loudness ON/OFF switch. (LOUDNESS)
- S983 : DOLBY PRO LOGIC OFF ON switch. (OFF/ON)
- S984 : DOLBY PRO LOGIC mode detect switch. (DD PRO LOGIC)
- S985 : Center mode select switch. (CENTER MODE)
- S991 : Phono switch. (PHONO)
- S992 : Tuner switch. (TUNER)
- S993 : CD switch. (CD)
- S994 : Tape monitor switch. (TAPE MONITOR)
- S995 : TV/VCR 2 switch. (TV/VCR 2)
- S996 : VCR1 switch. (VCR 1)
- VR401 : Input level control VR. (SURROUND L LEVEL)
- VR402 : Input level control VR. (SURROUND R LEVEL)
- VR403 : Input level control VR. (CENTER LEVEL)
- VR501 : Volume control VR. (VOLUME)
- VR502 : Balance control. (BALANCE)
- VR511 : Bass control VR. (BASS)
- VR512 : Treble control VR. (TREBLE)

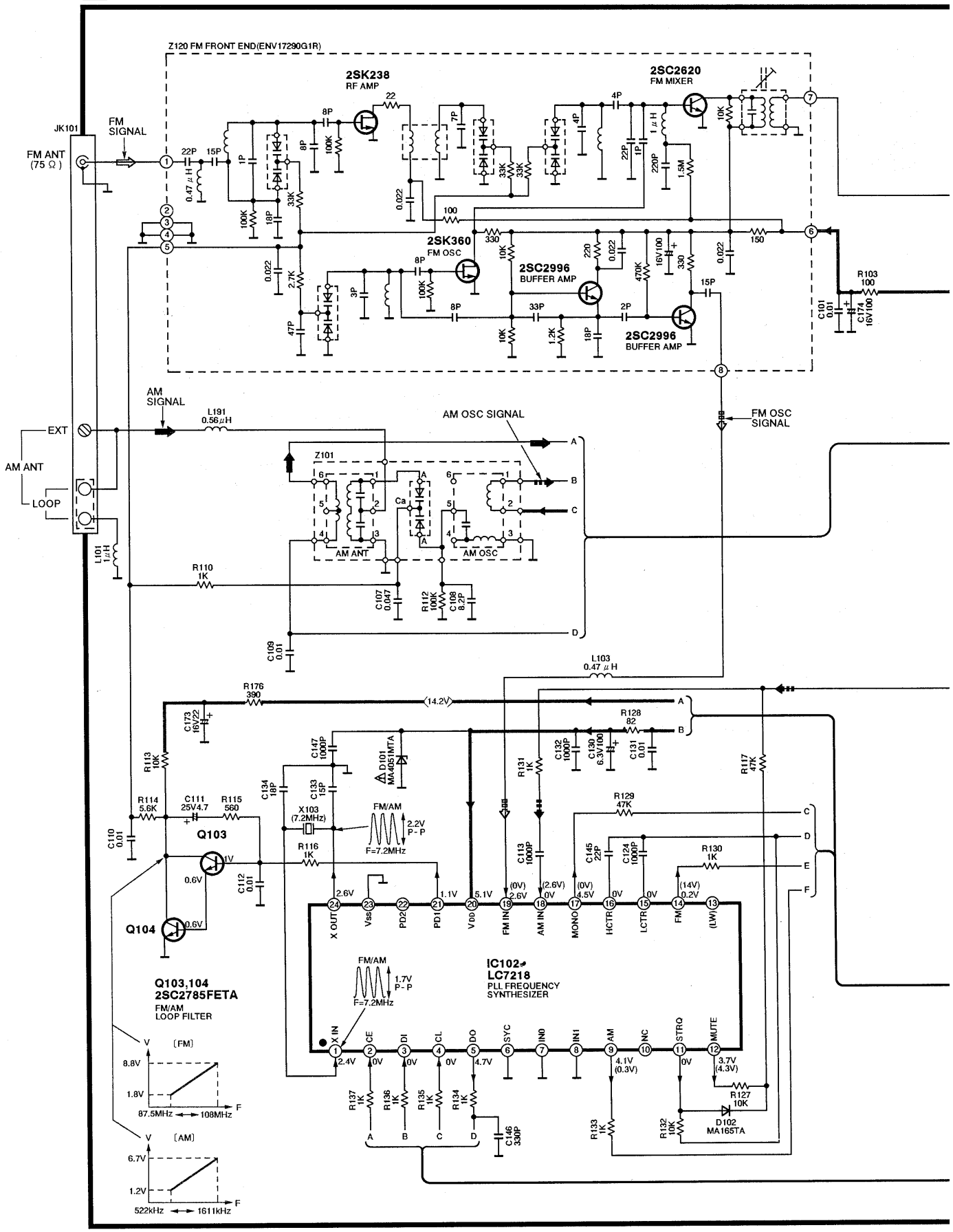
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  - No mark ..... FM
  - ( ) ..... AM
  - < > ..... Fan motor OFF
  - ⌜ ⌟ ..... Fan motor ON

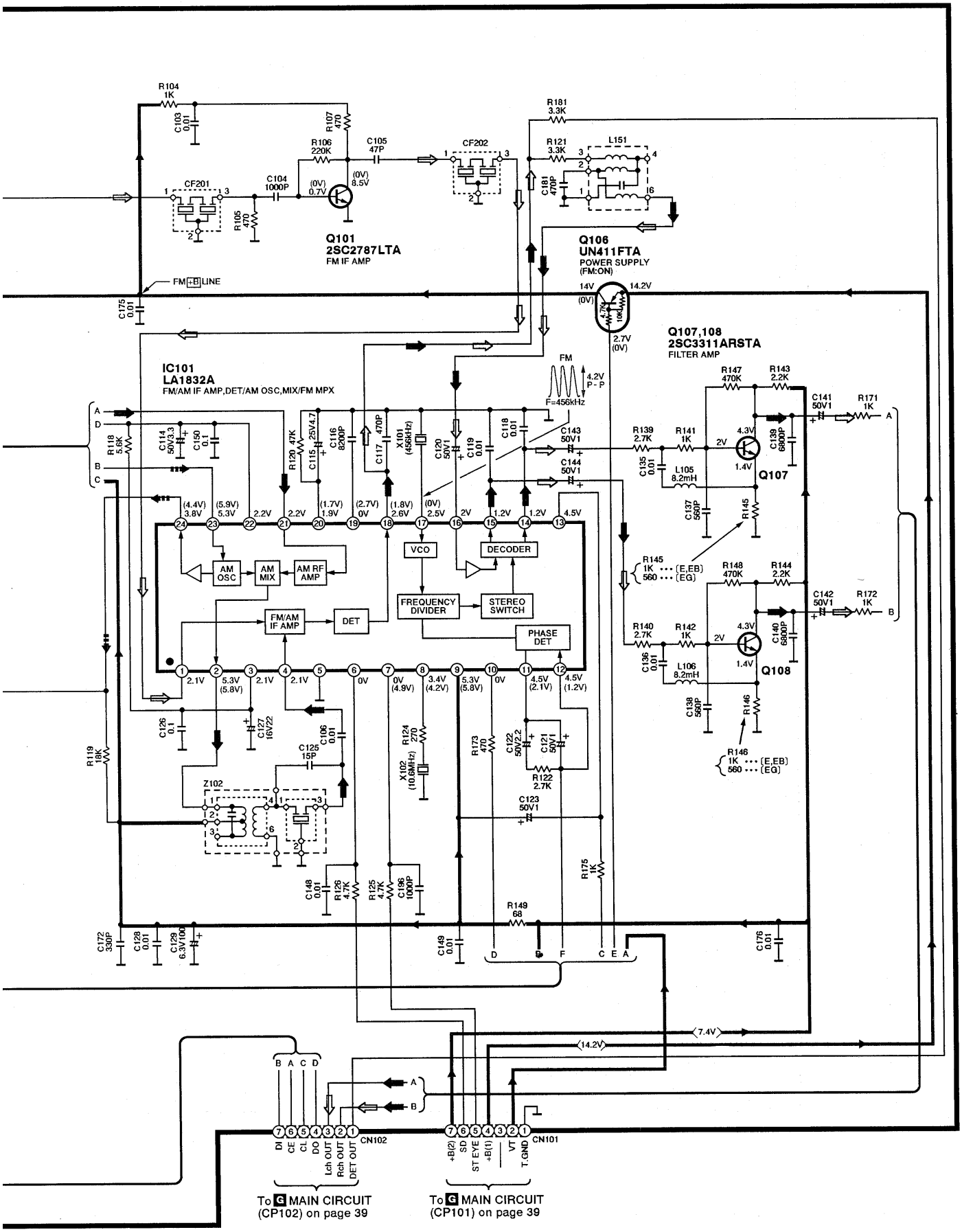
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.

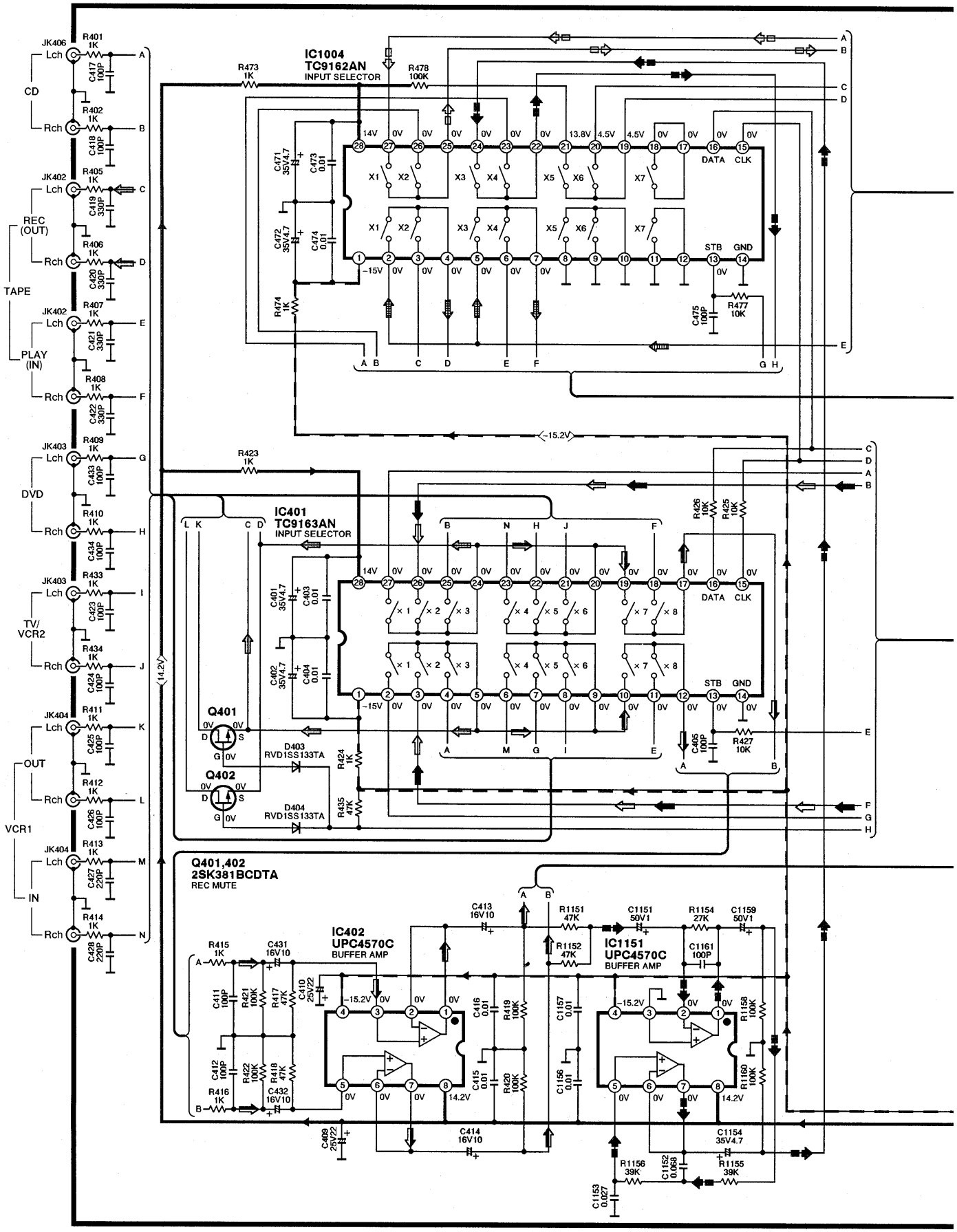
: FM SIGNAL LINE
: FM OSC SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE
: MAIN SIGNAL LINE
: CENTER SPEAKER SIGNAL LINE
: SURROUND SPEAKER SIGNAL LINE
: SUB WOOFER SPEAKER SIGNAL LINE
: REC OUT SIGNAL LINE
: +B LINE
: –B LINE

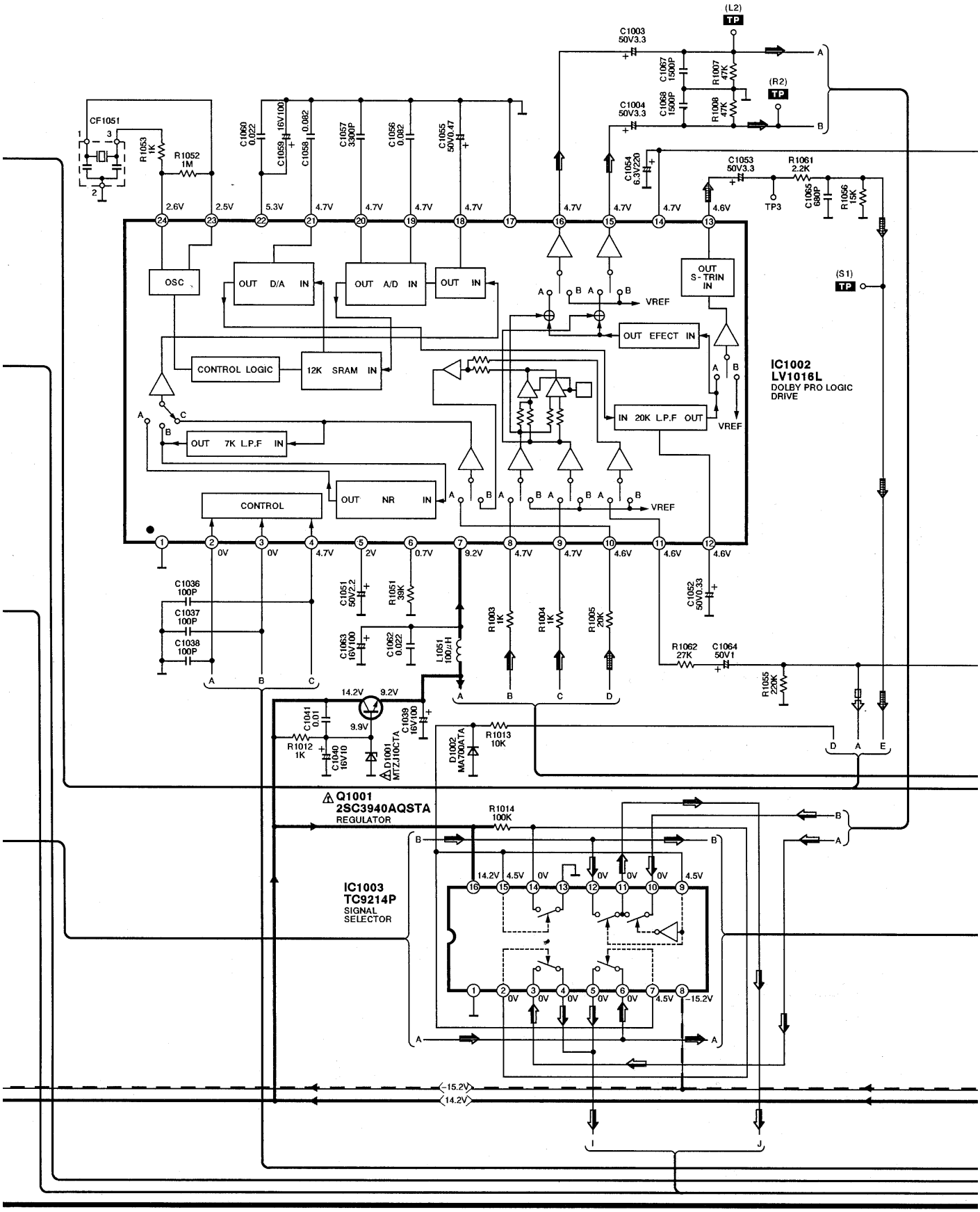
A TUNER CIRCUIT (P.C.Board:on page 43)



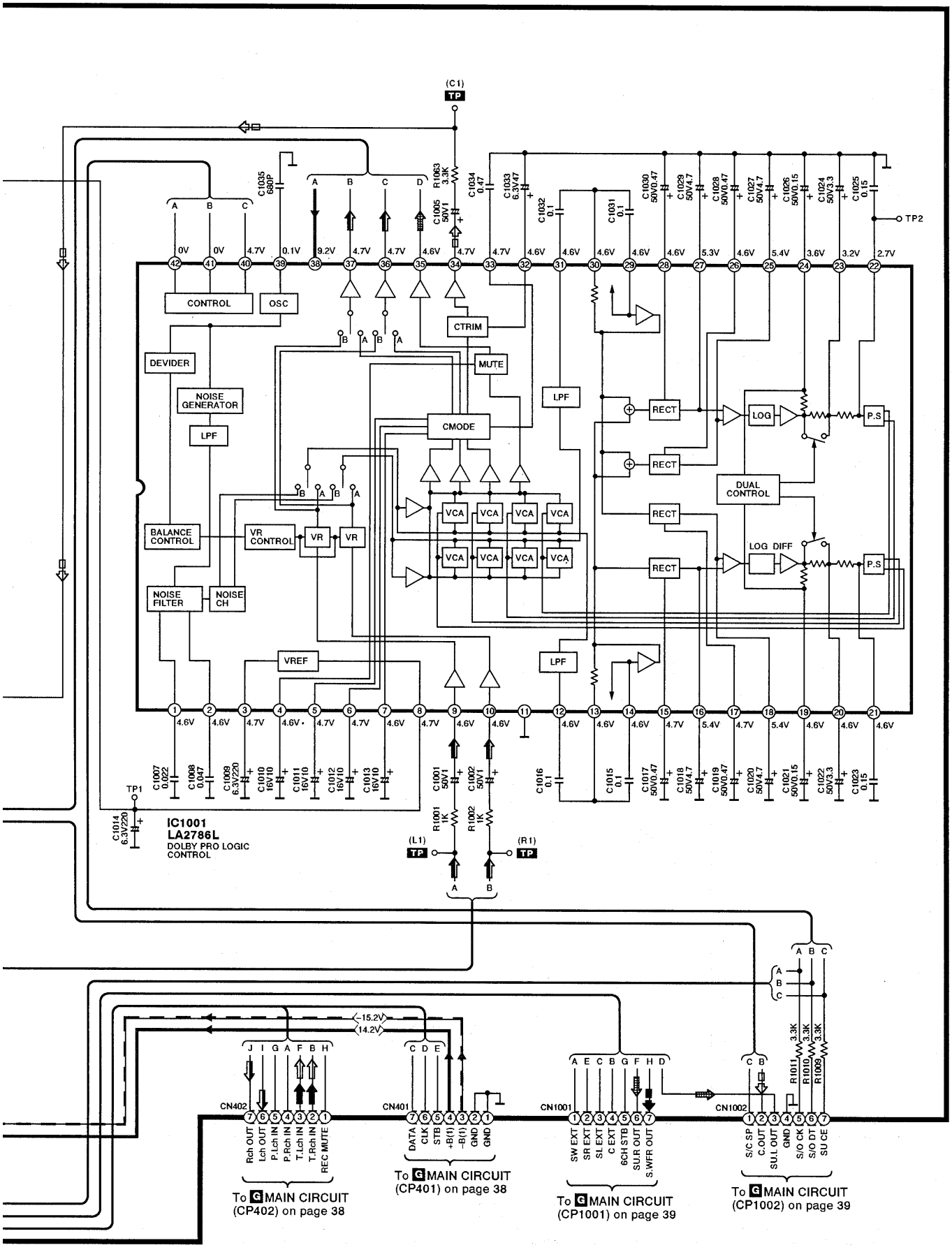

Q101
2SC2787LTA
FM IF AMP
Q106
UN411FTA
POWER SUPPLY
(FM:ON)
FM+B LINE
IC101
LA1832A
FM/AM IF AMP,DET/AM OSC,MIX/FM MPX
Q107,108
2SC3311ARSTA
FILTER AMP
Q107
Q108
VCO
DECODER
AM OSC
AM MIX
AM RF AMP
FM/AM IF AMP
DET
FREQUENCY DIVIDER
STEREO SWITCH
PHASE DET
F=456kHz
4.2V P-P
CN102
CN101
DI
CE
CL
DO
Lch OUT
Rch OUT
DET OUT
+B(2)
SD
ST EYE
+B(1)
VT
T.GND
7.4V
14.2V
To G MAIN CIRCUIT
(CP102) on page 39
To G MAIN CIRCUIT
(CP101) on page 39

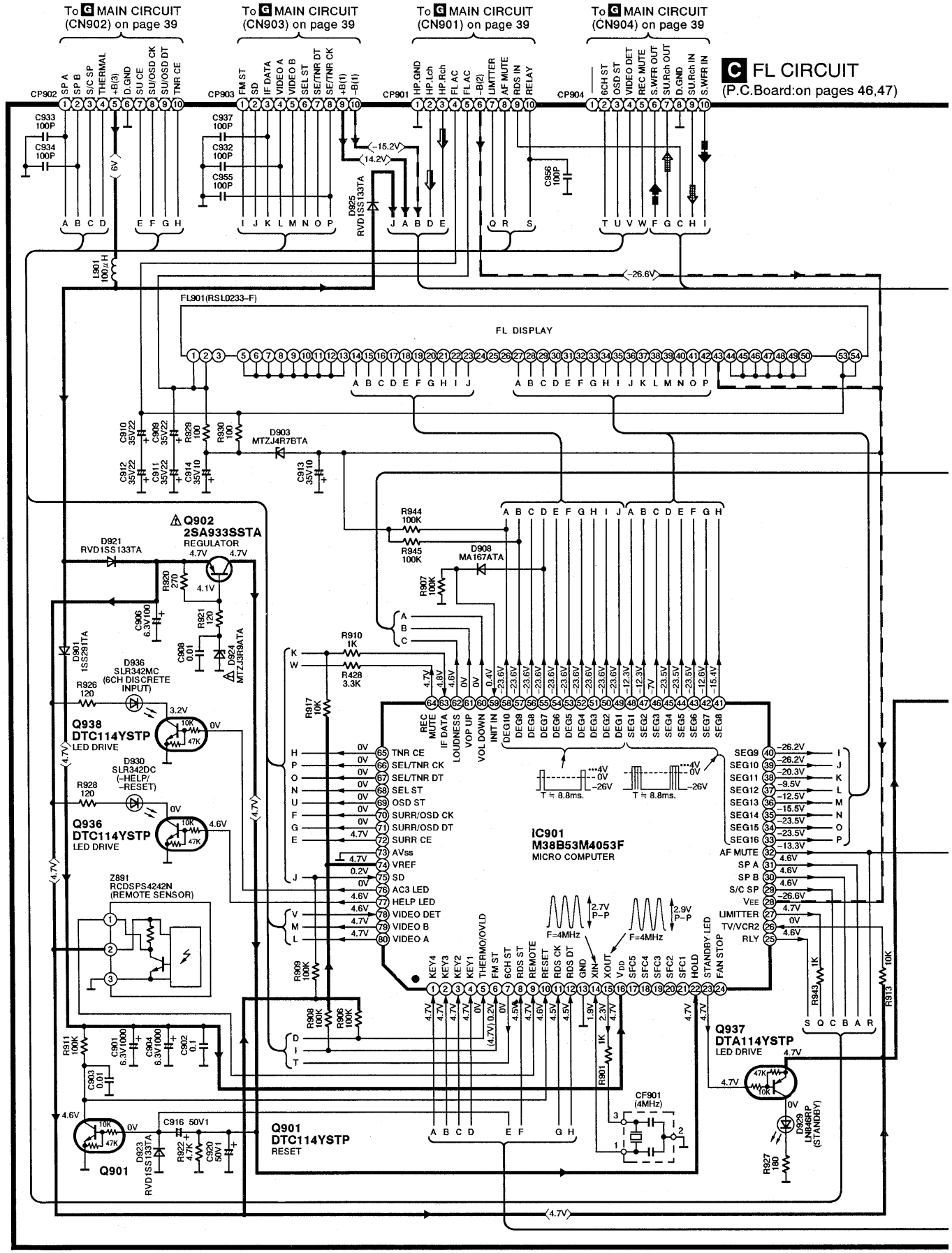
B IN/OUT TERMINAL CIRCUIT (P.C.Board:on page 44)

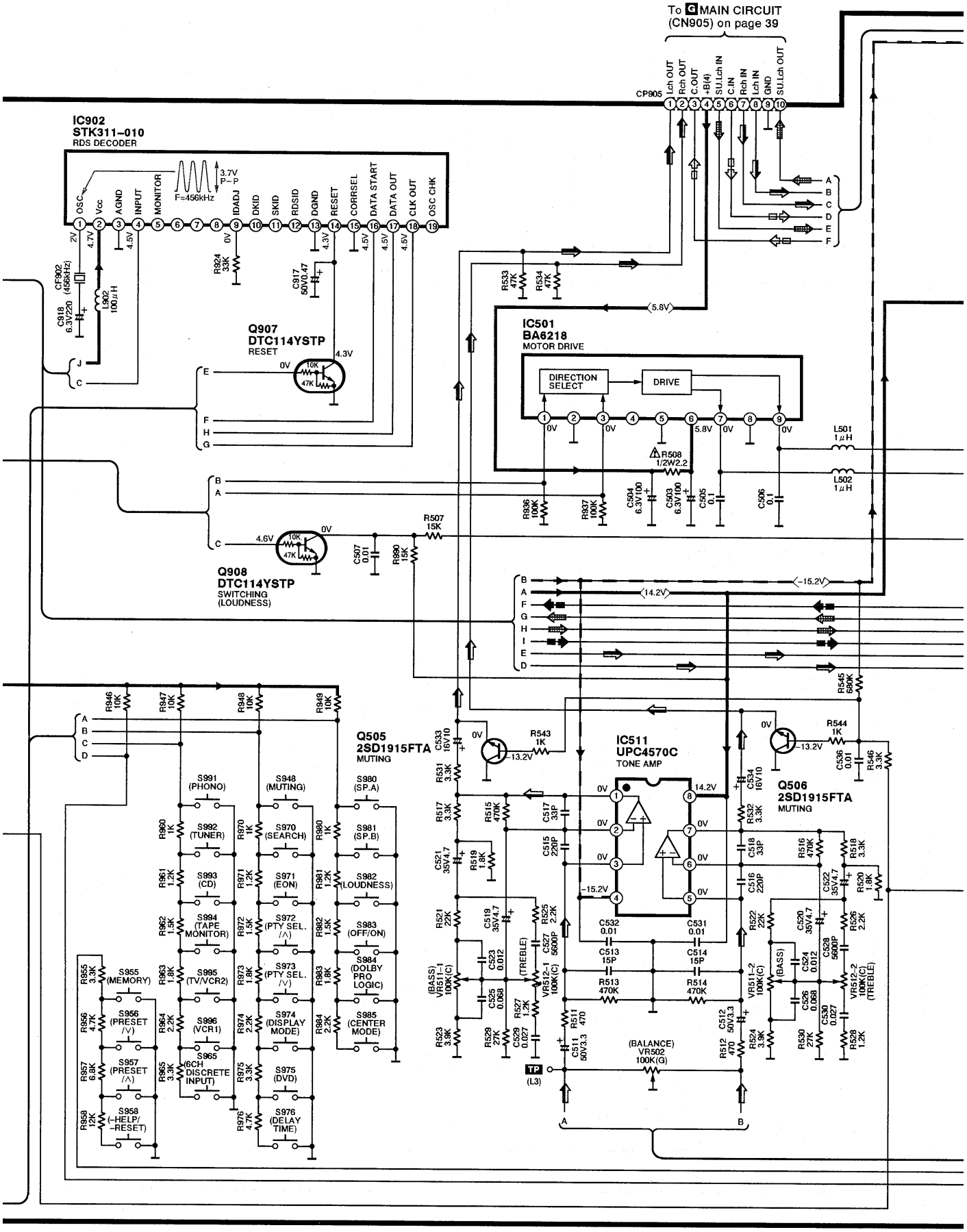



IC1002
LV1016L
DOLBY PRO LOGIC
DRIVE
IC1003
TC9214P
SIGNAL
SELECTOR
Q1001
2SC3940AQSTA
REGULATOR
OSC
OUT D/A IN
OUT A/D IN
OUT IN
OUT S-TRIN IN
OUT EFECT IN
CONTROL LOGIC
12K SRAM IN
IN 20K L.P.F OUT
OUT 7K L.P.F IN
CONTROL
OUT NR IN
VREF
CF1051
(L2)
(R2)
(S1)
TP3

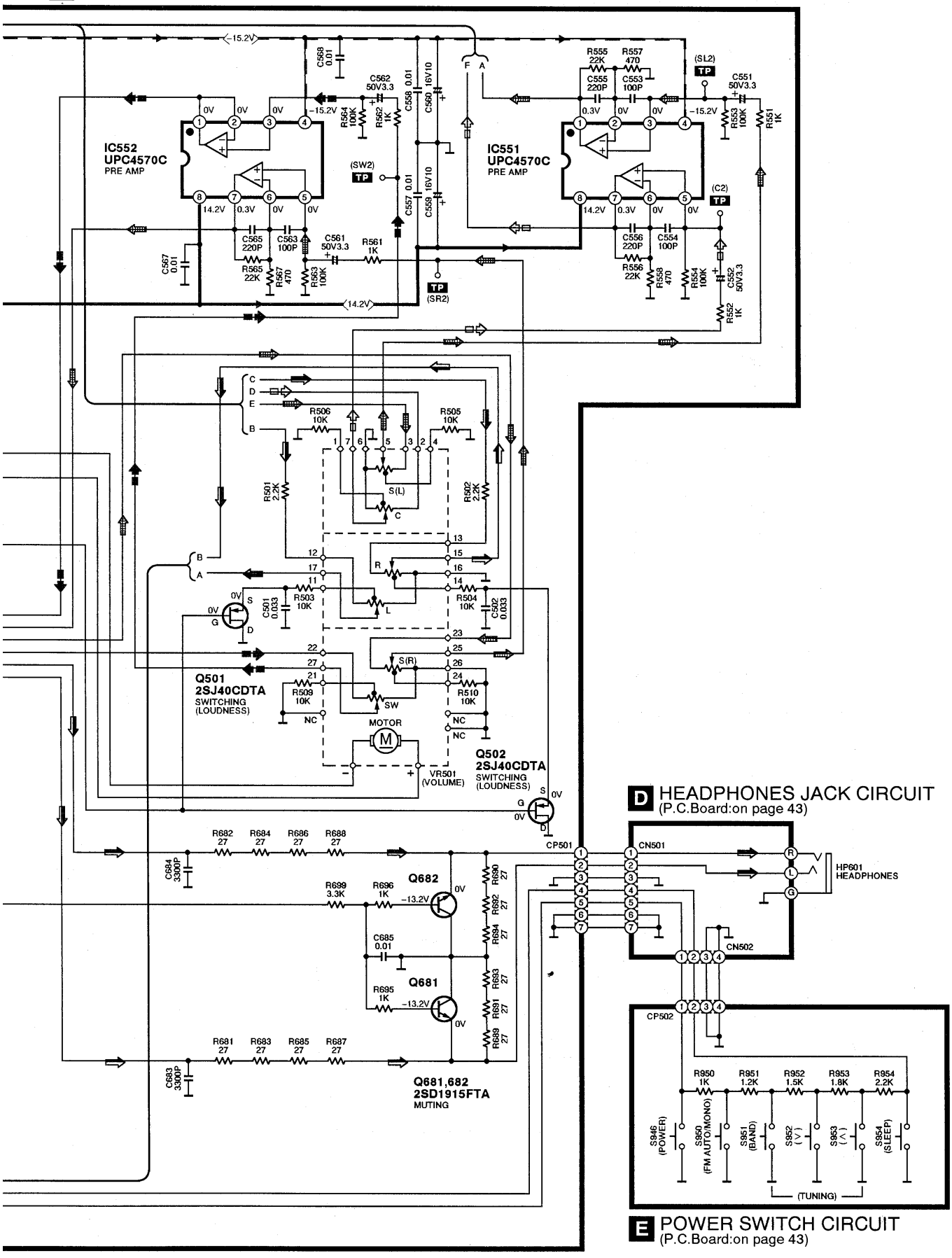
B IN/OUT TERMINAL CIRCUIT (P.C.Board:on page 44)




To C MAIN CIRCUIT (CN902) on page 39
To C MAIN CIRCUIT (CN903) on page 39
To C MAIN CIRCUIT (CN901) on page 39
To C MAIN CIRCUIT (CN904) on page 39
C FL CIRCUIT
(P.C.Board:on pages 46,47)
CP902 SP A SP B S/C SP THERMAL +B(3) D.GND SU CE SU/OSD CK SU/OSD DT TNR CE
CP903 FM ST SD IF DATA VIDEO A VIDEO B SEL ST SE/TNR DT SE/TNR CK +B(1) -B(1)
CP901 HP.GND HP.Lch HP.Rch FL AC FL AC -B(2) LIMITTER AF MUTE RDS IN RELAY
CP904 6CH ST OSD ST VIDEO DET REC MUTE S.WFR OUT SU.Rch OUT D.GND SU.Rch IN S.WFR IN
FL901(RSL0233-F)
FL DISPLAY
Q902 2SA933SSTA REGULATOR
Q938 DTC114YSTP LED DRIVE
Q936 DTC114YSTP LED DRIVE
Q901 DTC114YSTP RESET
Q937 DTA114YSTP LED DRIVE
IC901 M38B53M4053F MICRO COMPUTER
Z891 RCDSPS4242N (REMOTE SENSOR)
CF901 (4MHz)
D825 RVD1SS133TA
D903 MTZJ4R7BTA
D908 MA167ATA
D921 RVD1SS133TA
D901 1SS291TA
D936 SLR342MC (6CH DISCRETE INPUT)
D930 SLR342DC (-HELP/ -RESET)
D924 MTZJ3R9ATA
D923 RVD1SS133TA
D929 LN946RP (STANDBY)
TNR CE
SEL/TNR CK
SEL/TNR DT
SEL ST
OSD ST
SURR/OSD CK
SURR/OSD DT
SURR CE
AVss
VREF
SD
AC3 LED
HELP LED
VIDEO DET
VIDEO B
VIDEO A
REC MUTE
IF DATA
LOUDNESS
VOP UP
VOL DOWN
INIT IN
SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16
AF MUTE
SP A
SP B
S/C SP
VEE
LIMITTER
TV/VCR2
RLY
KEY4 KEY3 KEY2 KEY1 THERMO/OVLD FM ST 6CH ST RDS ST REMOTE RESET RDS CK RDS DT GND XIN XOUT VDD SFC5 SFC4 SFC3 SFC2 SFC1 HOLD STANDBY LED FAN STOP
F=4MHz
2.7V P-P
2.9V P-P
T ≒ 8.8ms.
-26V
4.7V
4.6V
0V
-26.6V


To G MAIN CIRCUIT
(CN905) on page 39
CP905
Lch OUT
Rch OUT
C.OUT
+B(4)
SU.Lch IN
C.IN
Rch IN
Lch IN
GND
SU.Lch OUT
IC902
STK311-010
RDS DECODER
OSC
Vcc
AGND
INPUT
MONITOR
IDADJ
DKID
SKID
RDSID
DGND
RESET
CORRSEL
DATA START
DATA OUT
CLK OUT
OSC CHK
3.7V P-P
F=456kHz
CF902 (456kHz)
L902 100μH
C918 6.3V220
R924 33K
C917 50V0.47
R533 47K
R534 47K
5.8V
IC501
BA6218
MOTOR DRIVE
DIRECTION SELECT
DRIVE
R508 1/2W2.2
L501 1μH
L502 1μH
R936 100K
R937 100K
C504 6.3V100
C503 6.3V100
C505 0.1
C506 0.1
Q907
DTC114YSTP
RESET
Q908
DTC114YSTP
SWITCHING
(LOUDNESS)
R507 15K
C507 0.01
R980 15K
14.2V
-15.2V
R545 680K
R544 1K
C536 0.01
R546 3.3K
Q505
2SD1915FTA
MUTING
Q506
2SD1915FTA
MUTING
IC511
UPC4570C
TONE AMP
R543 1K
C533 16V10
C534 16V10
R531 3.3K
R532 3.3K
R517 3.3K
R515 470K
C517 33P
C515 220P
C516 220P
C518 33P
R516 470K
R518 3.3K
R519 1.8K
C521 35V4.7
C522 35V4.7
R520 1.8K
R521 22K
R522 22K
C519 35V4.7
C520 35V4.7
R525 2.2K
R526 2.2K
C527 5600P
C528 5600P
C523 0.012
C524 0.012
C525 0.068
C526 0.068
C532 0.01
C531 0.01
C513 15P
C514 15P
R513 470K
R514 470K
VR511-1 100K(C) (BASS)
VR511-2 100K(C) (BASS)
VR512-1 100K(C) (TREBLE)
VR512-2 100K(C) (TREBLE)
R523 3.3K
R528 27K
R527 1.2K
C529 0.027
R511 470
C511 50V3.3
C512 50V3.3
R512 470
R524 3.9K
R530 27K
C530 0.027
R528 1.2K
(BALANCE) VR502 100K(G)
TP (L3)
R946 10K
R947 10K
R948 10K
R949 10K
S991 (PHONO)
S992 (TUNER)
S993 (CD)
S994 (TAPE MONITOR)
S995 (TV/VCR2)
S996 (VCR1)
S965 (6CH DISCRETE INPUT)
S948 (MUTING)
S970 (SEARCH)
S971 (EON)
S972 (PTY SEL. /∧)
S973 (PTY SEL. /∨)
S974 (DISPLAY MODE)
S975 (DVD)
S976 (DELAY TIME)
S980 (SP.A)
S981 (SP.B)
S982 (LOUDNESS)
S983 (OFF/ON)
S984 (DOLBY PRO LOGIC)
S985 (CENTER MODE)
S955 (MEMORY)
S956 (PRESET /∨)
S957 (PRESET /∧)
S958 (-HELP/ -RESET)
R960 1K
R961 1.2K
R962 1.5K
R963 1.8K
R964 2.2K
R965 3.3K
R970 1K
R971 1.2K
R972 1.5K
R973 1.8K
R974 2.2K
R975 3.3K
R976 4.7K
R980 1K
R981 1.2K
R982 1.5K
R983 1.8K
R984 2.2K
R955 3.3K
R956 4.7K
R957 6.8K
R958 12K

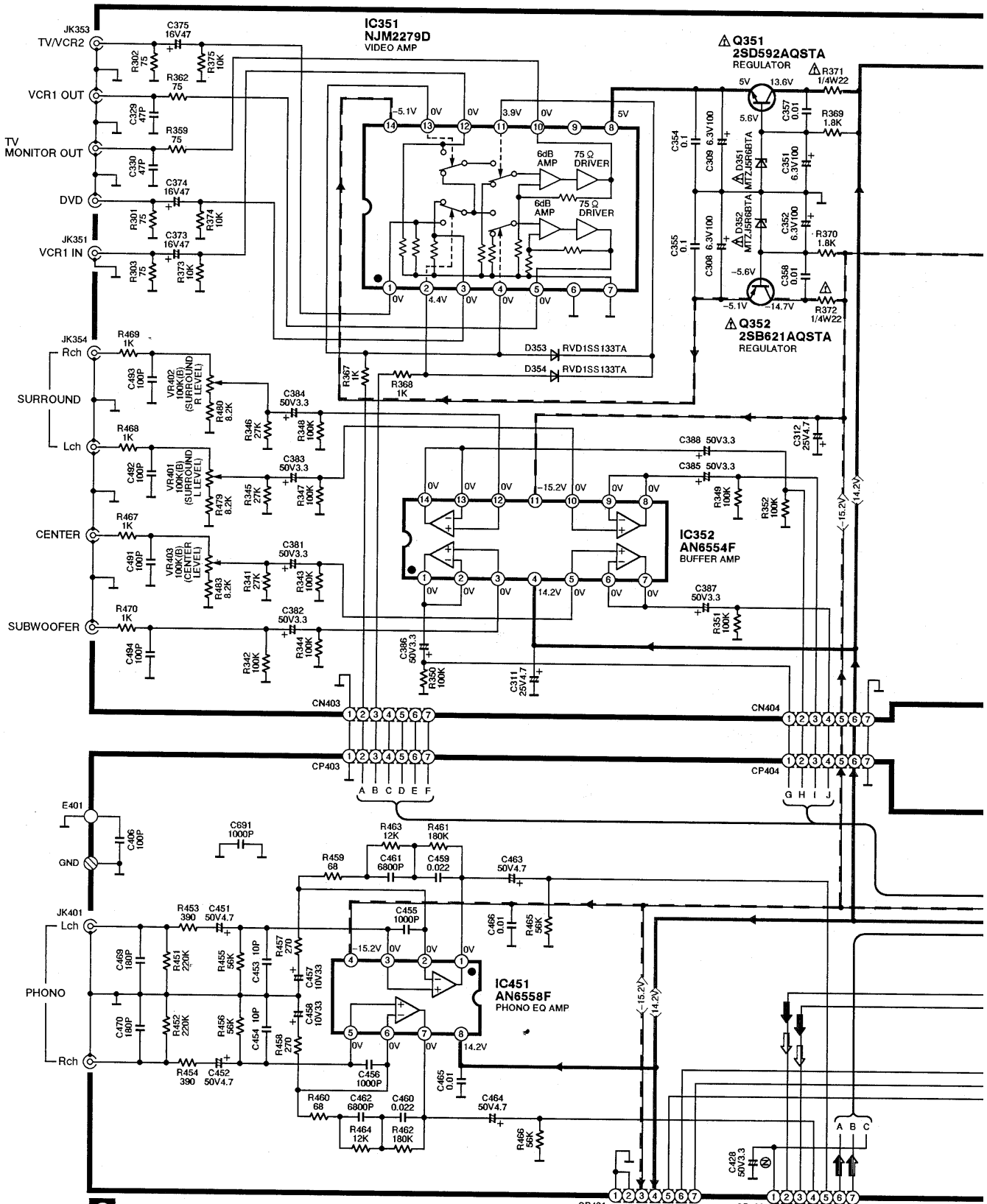
C FL CIRCUIT (P.C.Board:on pages 46,47)



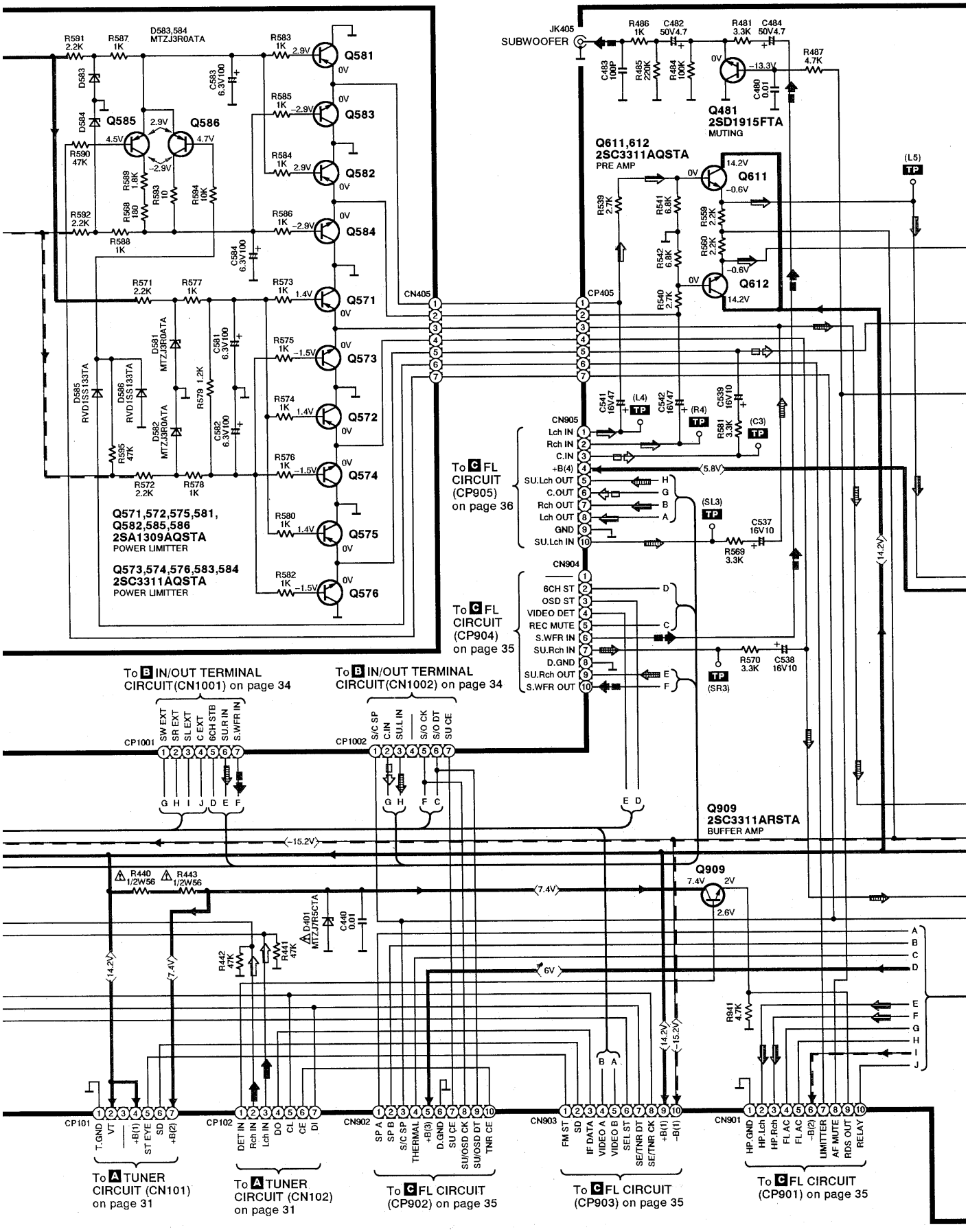
D HEADPHONES JACK CIRCUIT
(P.C.Board:on page 43)

E POWER SWITCH CIRCUIT
(P.C.Board:on page 43)

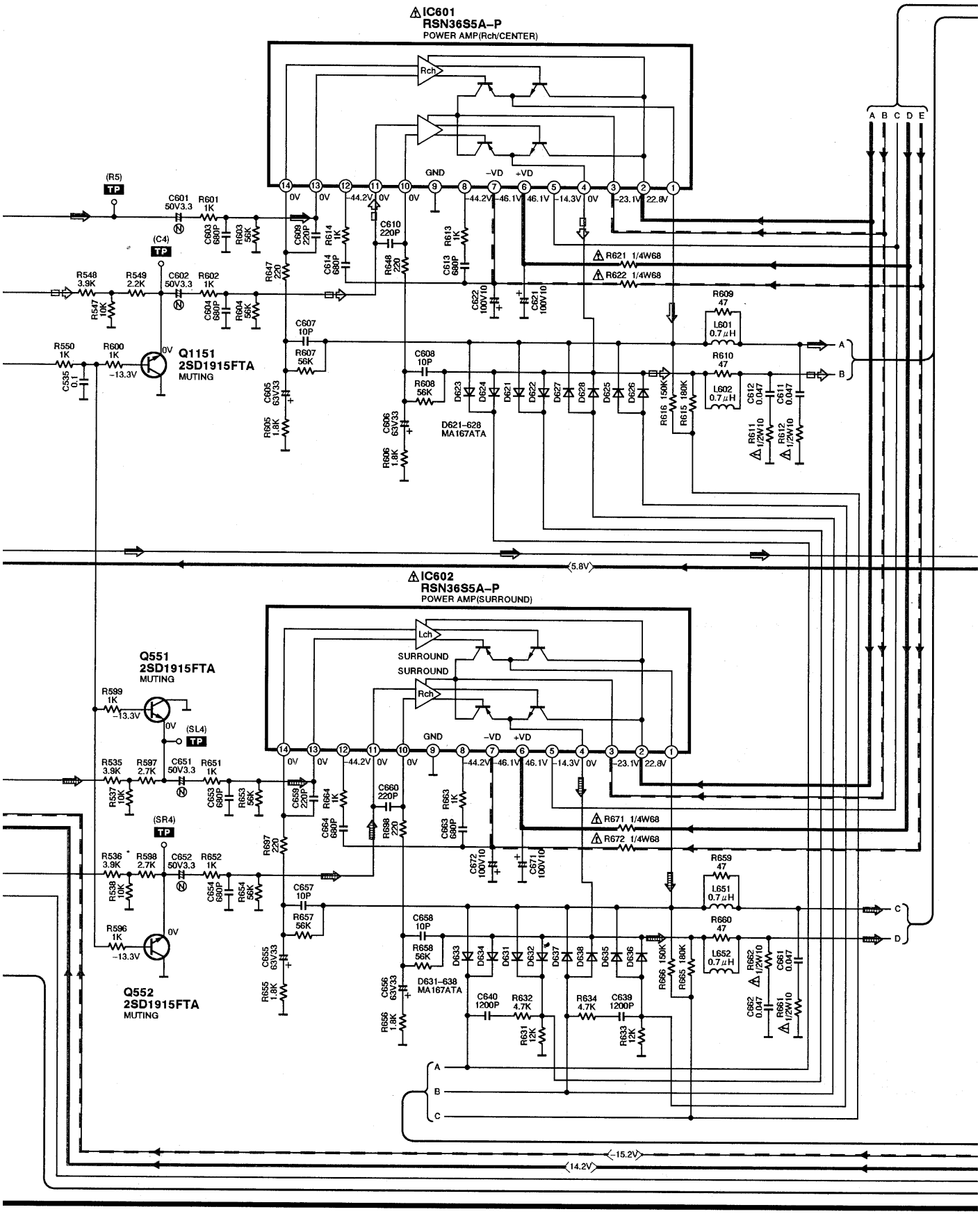
F SURROUND CIRCUIT (P.C.Board:on page 45)

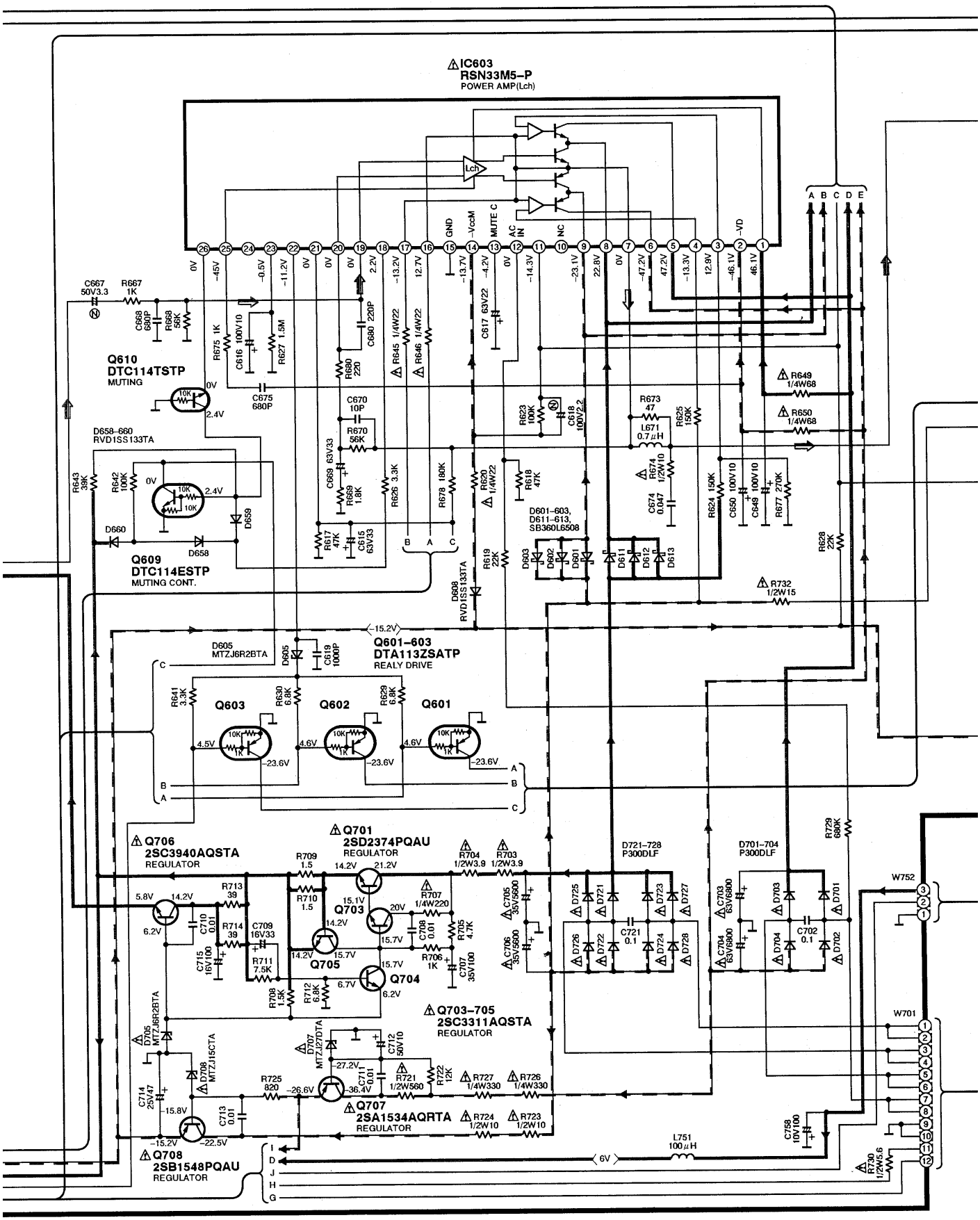


G MAIN CIRCUIT (P.C.Board:on pages 48,49)

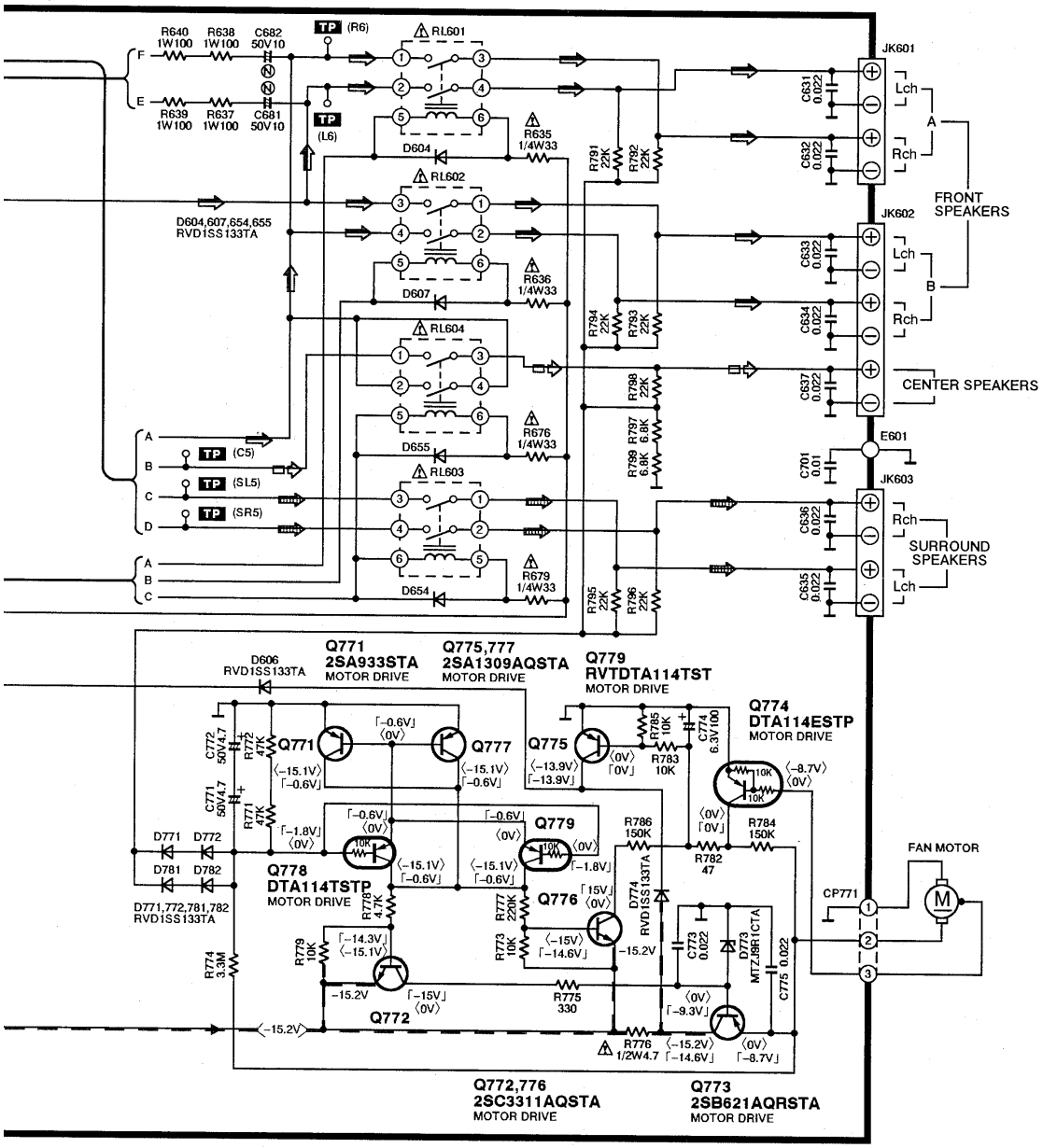

Q571,572,575,581,
Q582,585,586
2SA1309AQSTA
POWER LIMITTER
Q573,574,576,583,584
2SC3311AQSTA
POWER LIMITTER
Q481
2SD1915FTA
MUTING
Q611,612
2SC3311AQSTA
PRE AMP
Q909
2SC3311ARSTA
BUFFER AMP
SUBWOOFER
To B IN/OUT TERMINAL CIRCUIT(CN1001) on page 34
To B IN/OUT TERMINAL CIRCUIT(CN1002) on page 34
To C FL CIRCUIT (CP905) on page 36
To C FL CIRCUIT (CP904) on page 35
To A TUNER CIRCUIT (CN101) on page 31
To A TUNER CIRCUIT (CN102) on page 31
To C FL CIRCUIT (CP902) on page 35
To C FL CIRCUIT (CP903) on page 35
To C FL CIRCUIT (CP901) on page 35

G MAIN CIRCUIT (P.C.Board:on pages 48,49)

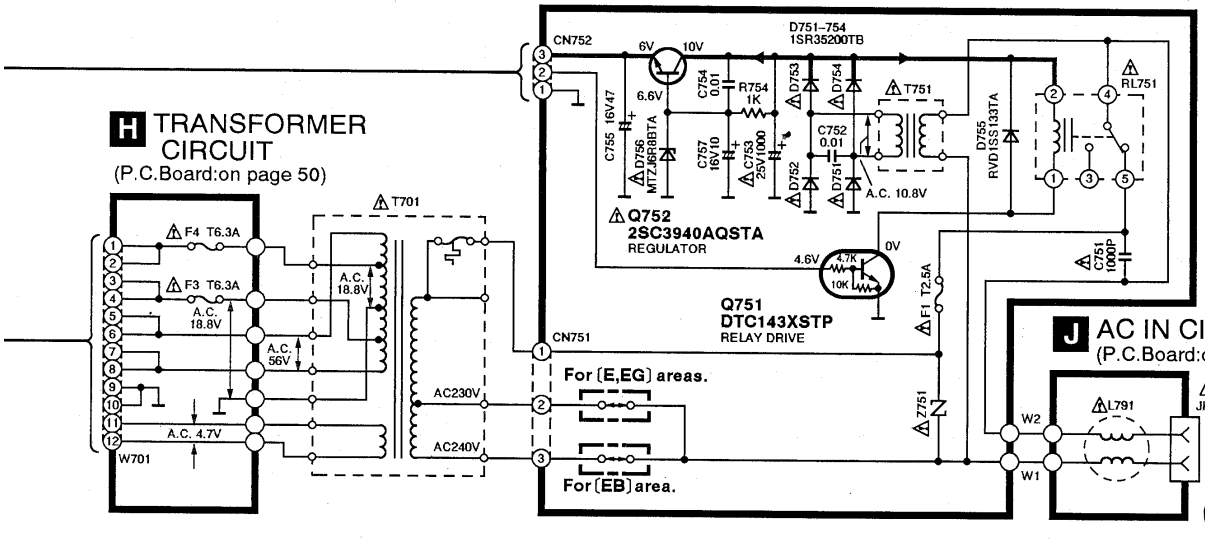



⚠IC603
RSN33M5-P
POWER AMP(Lch)
Lch
GND
-VccM
MUTE C
AC IN
NC
-VD
Q610
DTC114TSTP
MUTING
Q609
DTC114ESTP
MUTING CONT.
D658-660
RVD1SS133TA
D601-603, D611-613,
SB360L6508
Q601-603
DTA113ZSATP
REALY DRIVE
Q603
Q602
Q601
D605
MTZJ6R2BTA
⚠Q706
2SC3940AQSTA
REGULATOR
⚠Q701
2SD2374PQAU
REGULATOR
Q703
Q705
Q704
⚠Q703-705
2SC3311AQSTA
REGULATOR
⚠Q707
2SA1534AQRTA
REGULATOR
⚠Q708
2SB1548PQAU
REGULATOR
D721-728
P300DLF
D701-704
P300DLF
W752
W701
L751
100μH
6V
-15.2V
-23.6V

G MAIN CIRCUIT (P.C.Board:on pages 48,49)

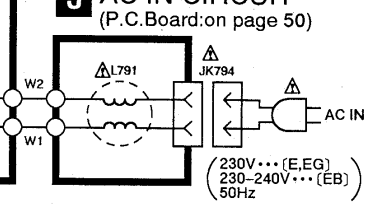


I POWER SUPPLY CIRCUIT (P.C.Board:on page 50)



H TRANSFORMER CIRCUIT (P.C.Board:on page 50)

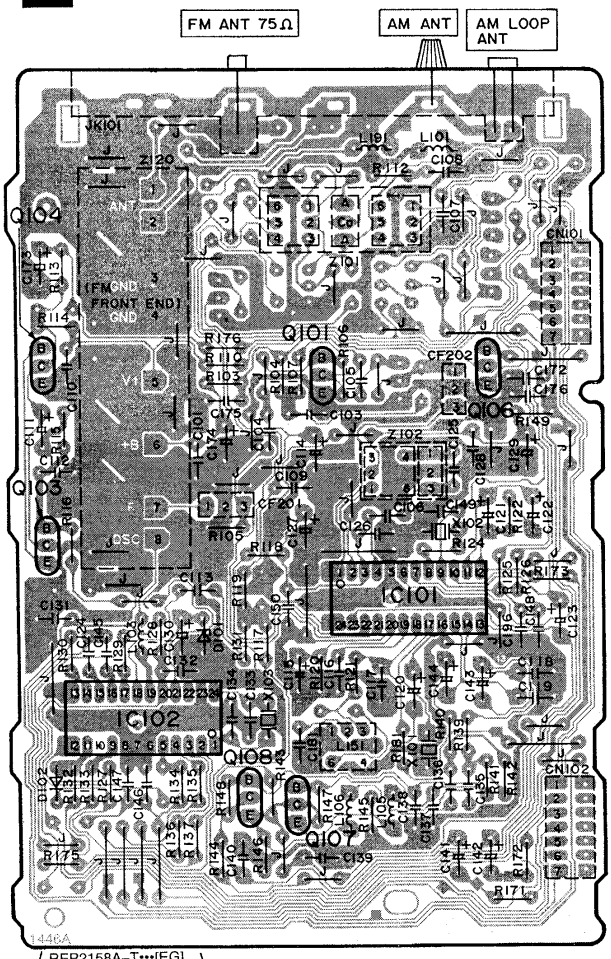
J AC IN CIRCUIT (P.C.Board:on page 50)



■ Printed Circuit Board Diagram

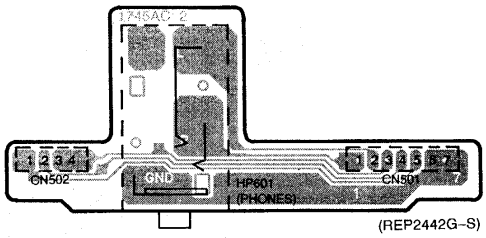
● This circuit board diagram may be modified at any time with the development of new technology.

A TUNER P.C.B.



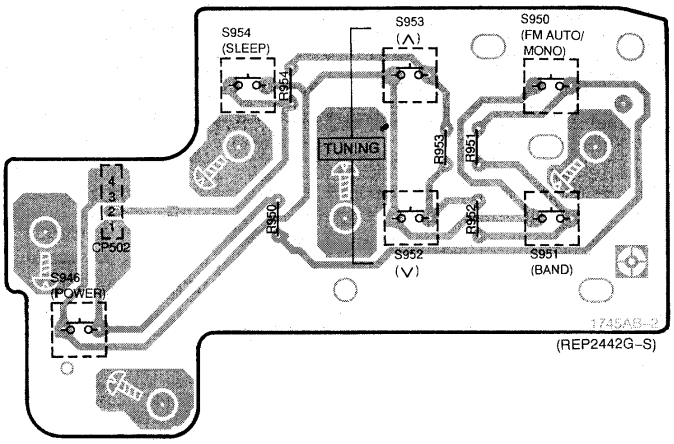
REP2158A-T•••[EG]
REP2158D-T•••[E,EB]

D HEADPHONES JACK P.C.B.



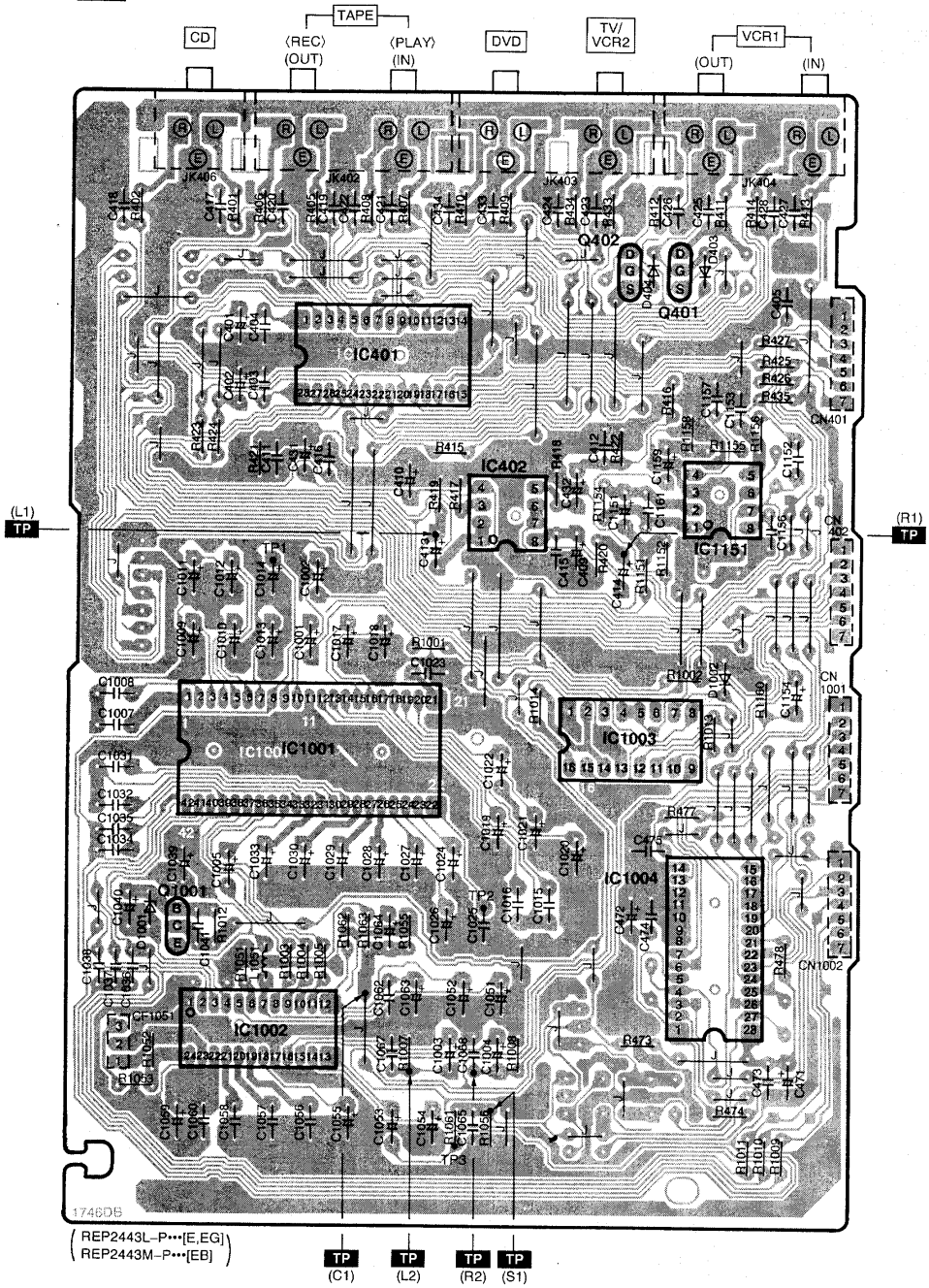
(REP2442G-S)

E POWER SWITCH P.C.B.

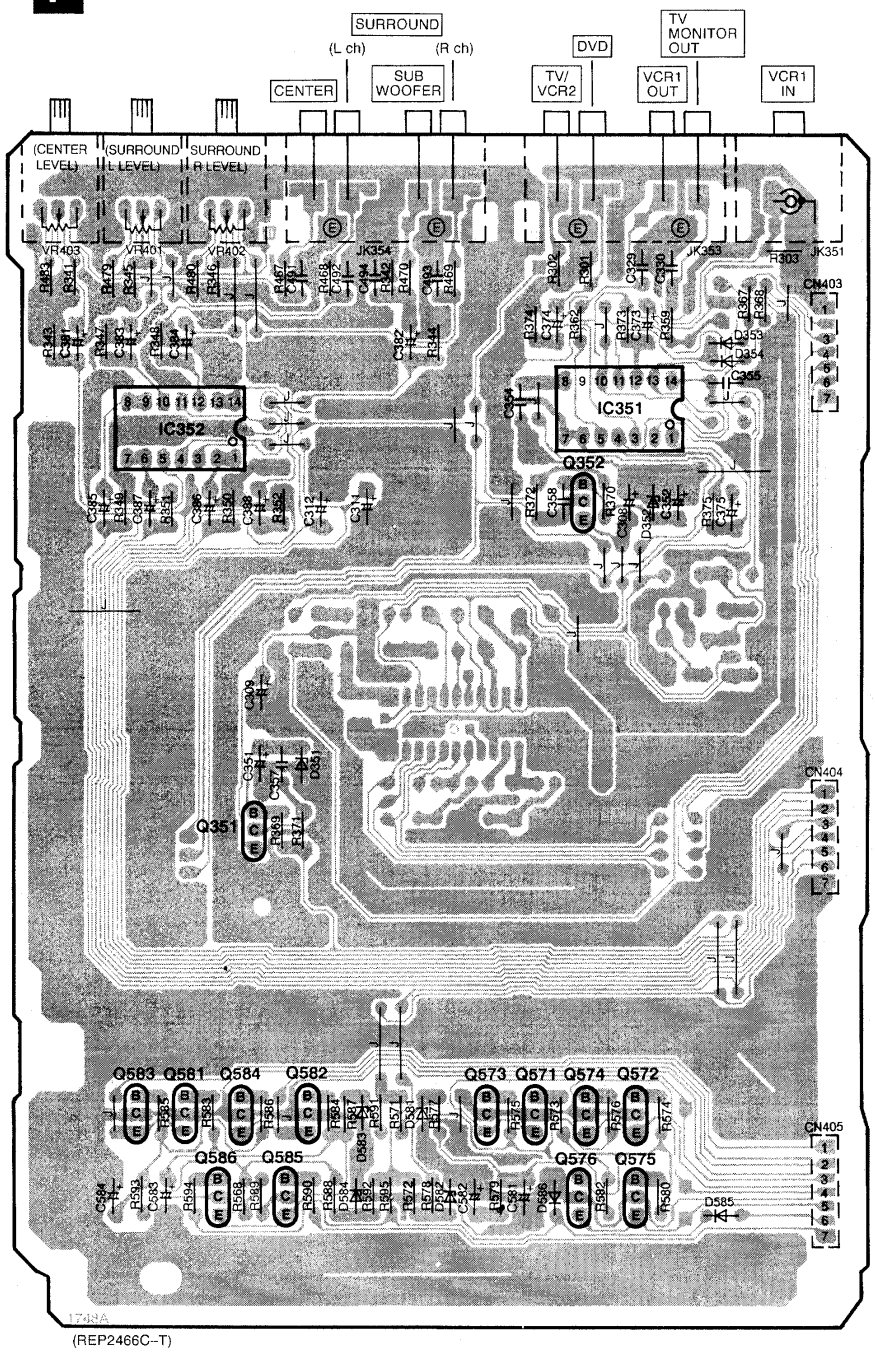


(REP2442G-S)

B IN/OUT TERMINAL P.C.B.

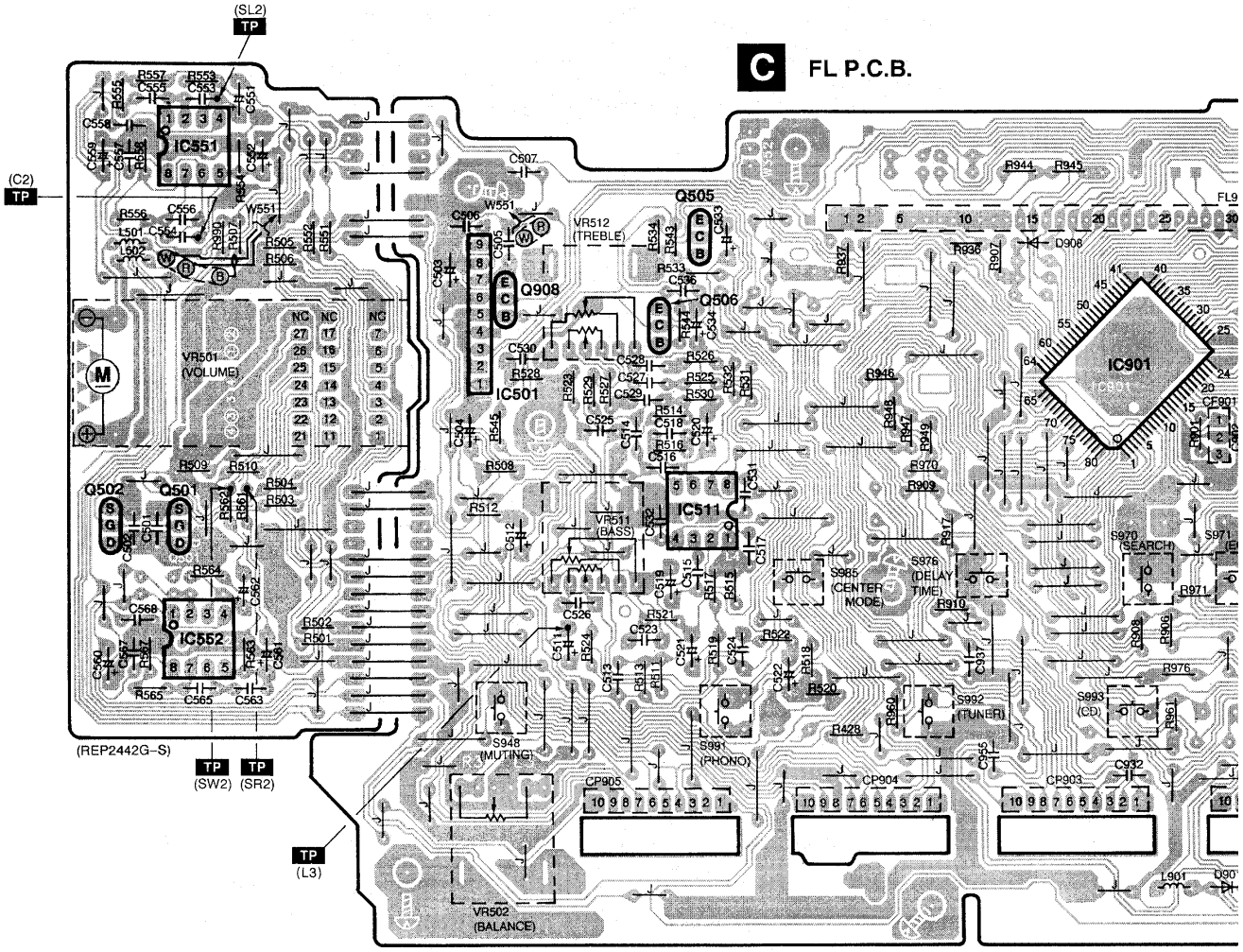


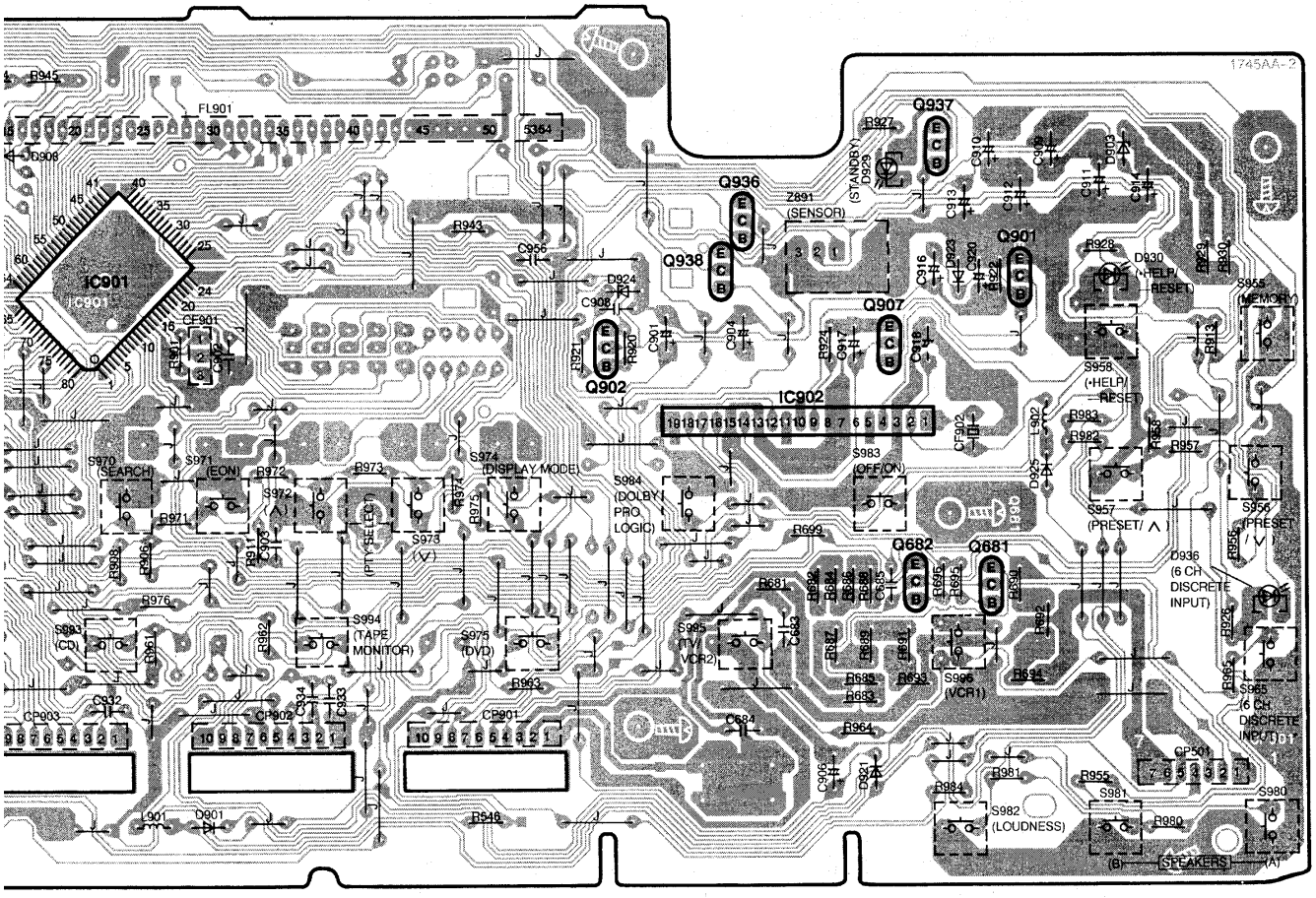
F SURROUND P.C.B.

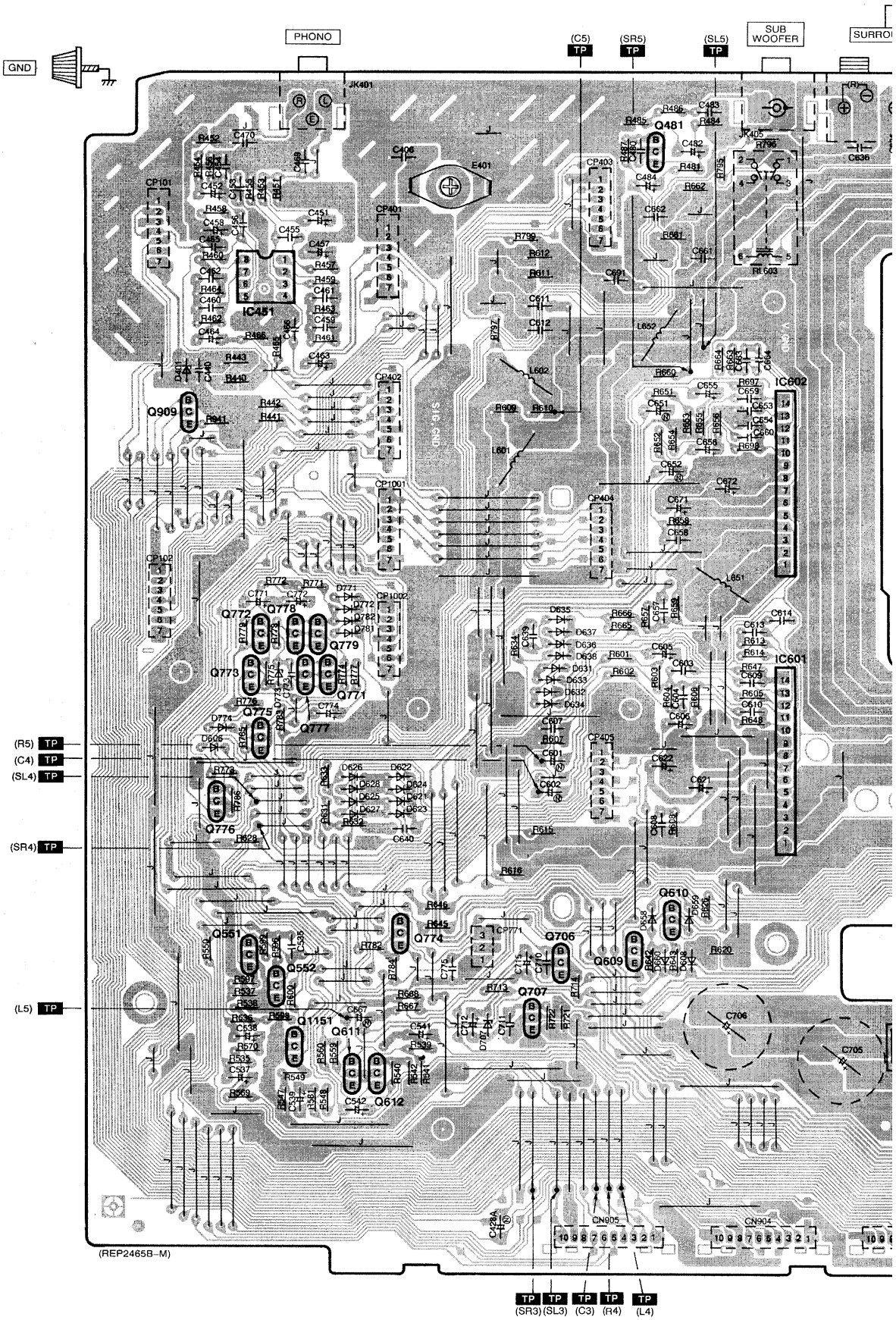


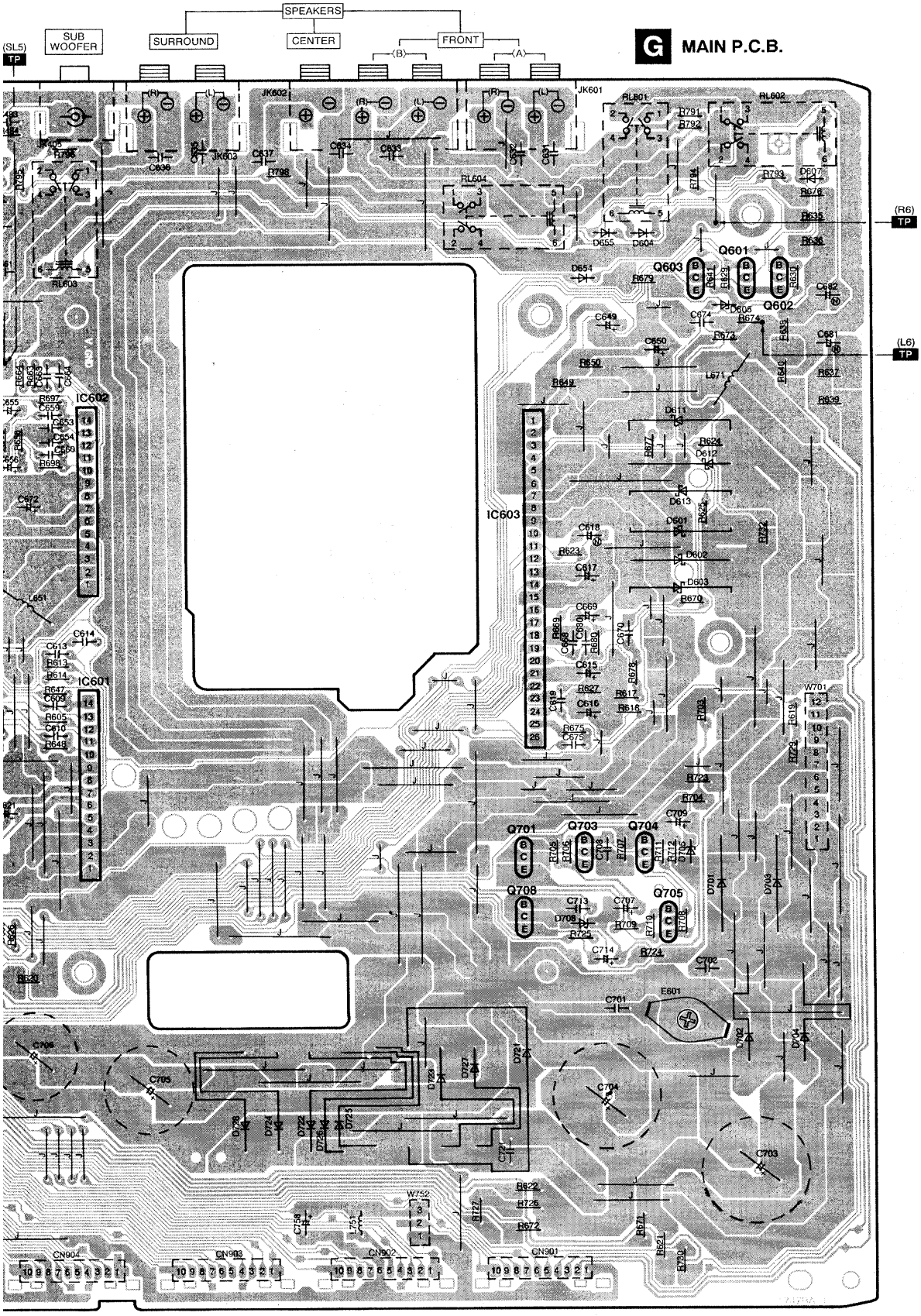
(REP2466C-T)

C FL P.C.B.

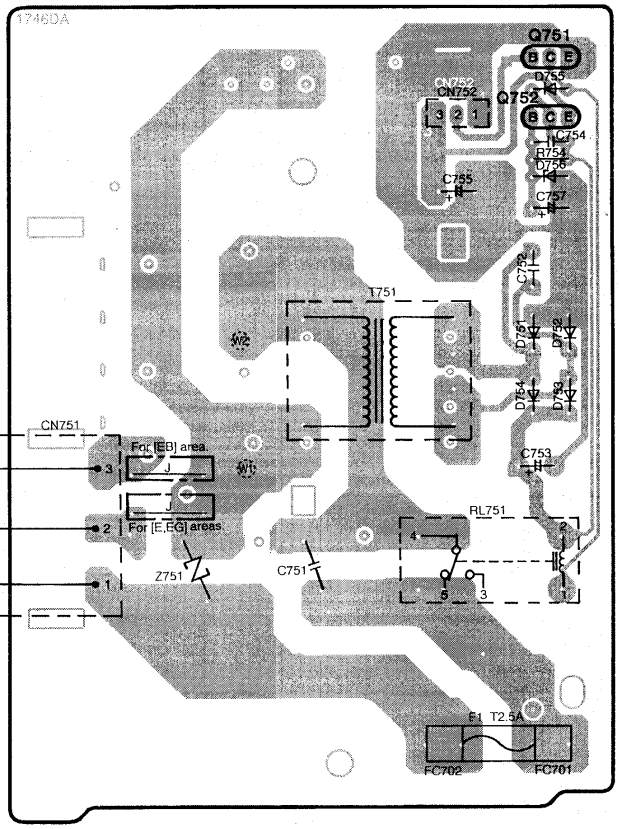

(SL2)
TP
(C2)
TP
IC551
IC552
IC501
IC511
IC901
Q908
Q505
Q506
Q502
Q501
VR501
(VOLUME)
VR512
(TREBLE)
VR511
(BASS)
VR502
(BALANCE)
S948
(MUTING)
S991
(PHONO)
S985
(CENTER
MODE)
S976
(DELAY
TIME)
S992
(TUNER)
S993
(CD)
S970
(SEARCH)
(REP2442G-S)
TP
(SW2)
TP
(SR2)
TP
(L3)
CP905
CP904
CP903


1745AA-2
IC901
IC902
Q901
Q902
Q907
Q936
Q937
Q938
Q681
Q682
Z891
(SENSOR)
(STANDBY)
D929
FL901
S970 (SEARCH)
S971 (EON)
S972 (∧)
S973 (PTY/SELECT)
S974 (DISPLAY MODE)
S975 (DVD)
S976
S977 (∨)
S980
S981
S982 (LOUDNESS)
S983 (OFF/ON)
S984 (DOLBY PRO LOGIC)
S994 (TAPE MONITOR)
S995 (TV/VCR2)
S996 (VCR1)
S955 (MEMORY)
S956 (PRESET/∨)
S957 (PRESET/∧)
S958 (+HELP/RESET)
D930 (+HELP/RESET)
D936 (6 CH DISCRETE INPUT)
S965 (6 CH DISCRETE INPUT)
SPEAKERS
(A)
(B)


PHONO
GND
(C5) TP
(SR5) TP
(SL5) TP
SUB WOOFER
(R5) TP
(C4) TP
(SL4) TP
(SR4) TP
(L5) TP
(SR3) TP
(SL3) TP
(C3) TP
(R4) TP
(L4) TP
IC451
IC601
IC602
Q481
Q909
Q772
Q773
Q775
Q776
Q778
Q779
Q771
Q777
Q774
Q551
Q552
Q1151
Q611
Q612
Q706
Q707
Q609
Q610
E401
JK401
JK405
CP101
CP102
CP401
CP402
CP403
CP404
CP405
CP1001
CP1002
CP7771
CN905
CN904
(REP2465B-M)

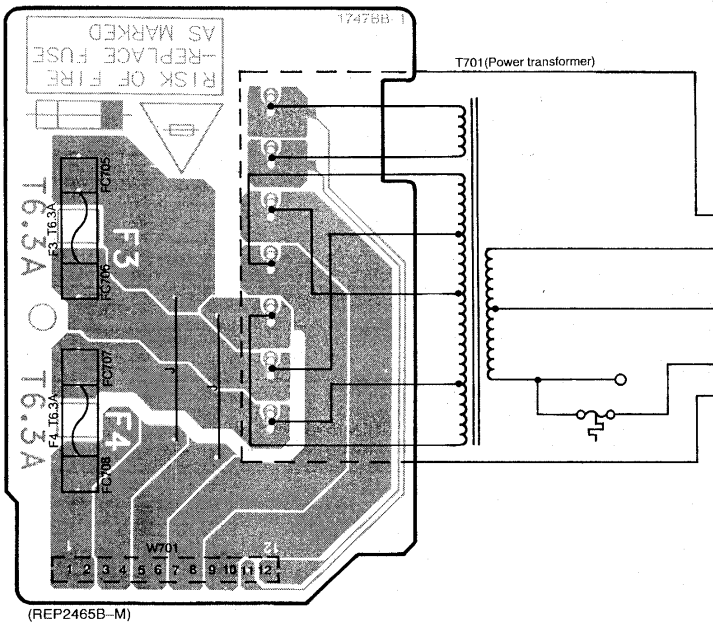

SPEAKERS
SUB WOOFER
SURROUND
CENTER
FRONT
(B)
(A)
(SL5)
TP
G MAIN P.C.B.
(R6)
TP
(L6)
TP
IC601
IC602
IC603
Q601
Q602
Q603
Q701
Q703
Q704
Q705
Q708
JK601
JK602
JK603
RL601
RL602
RL603
RL604
E601
W701
W752
CN901
CN902
CN903
CN904

I POWER SUPPLY P.C.B.



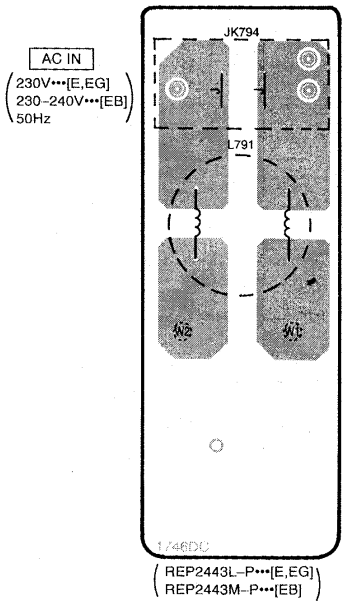
(REP2443L–P•••[E,EG]
REP2443M–P•••[EB])

H TRANSFORMER P.C.B.



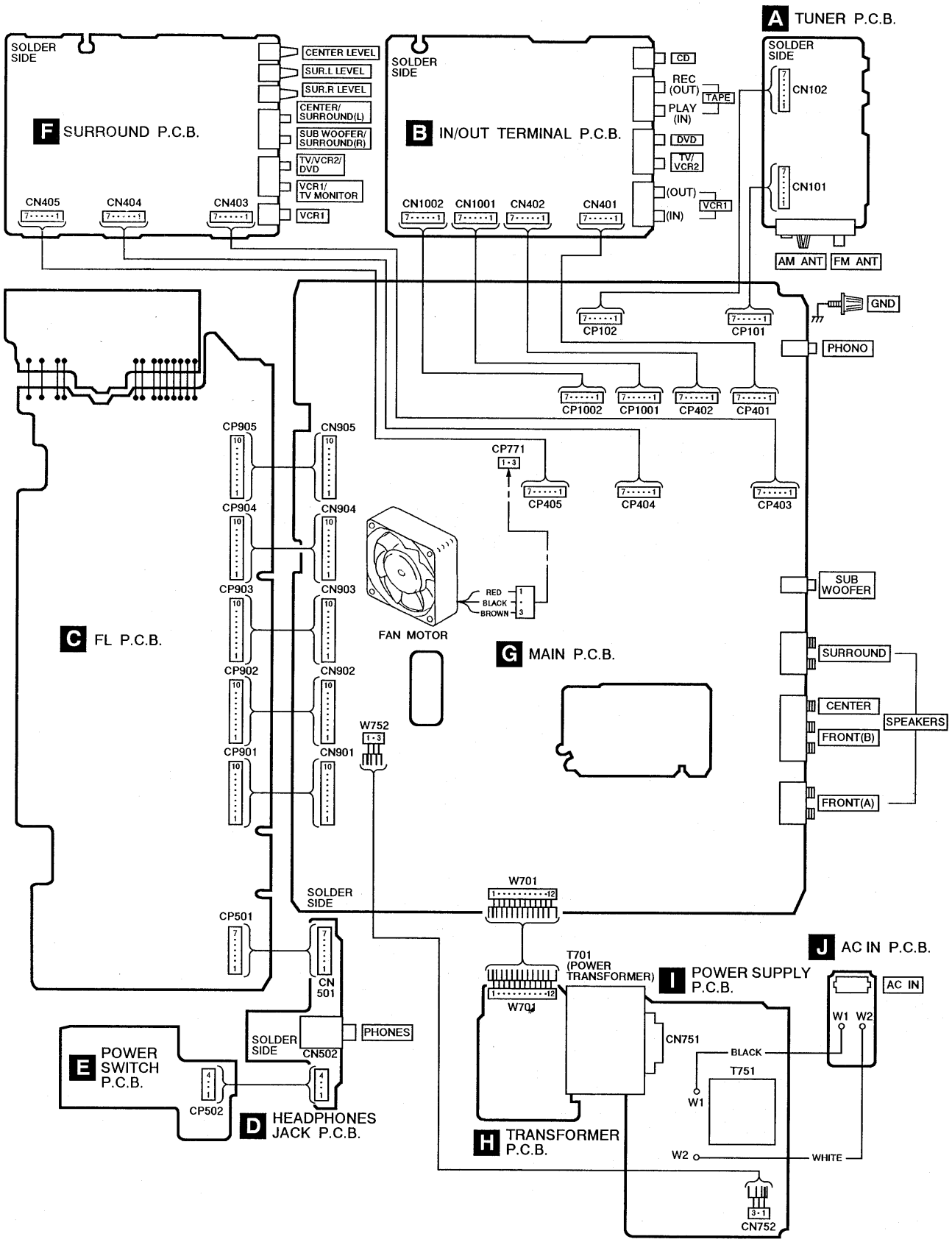
(REP2465B–M)

J AC IN P.C.B.

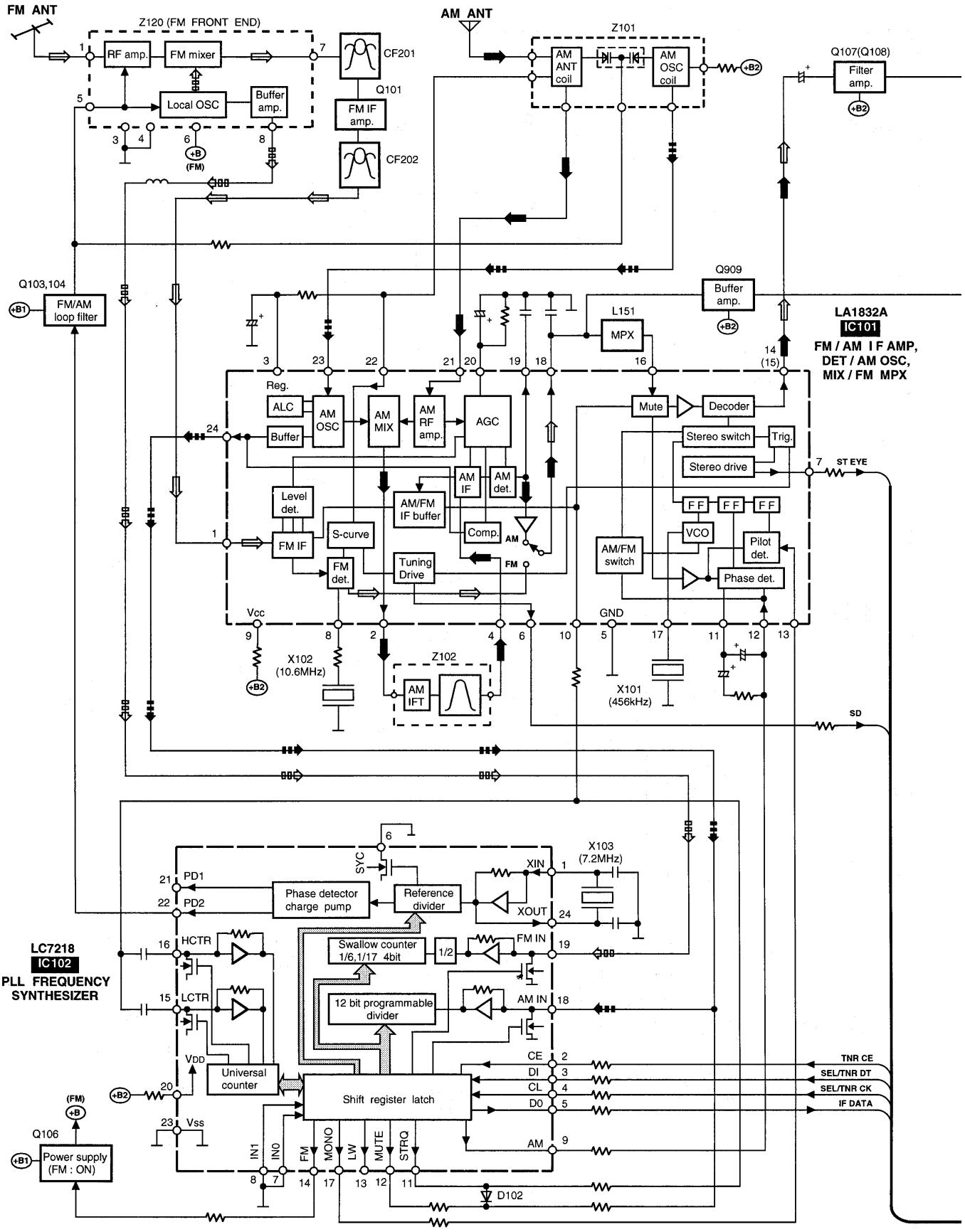


(REP2443L–P•••[E,EG]
REP2443M–P•••[EB])

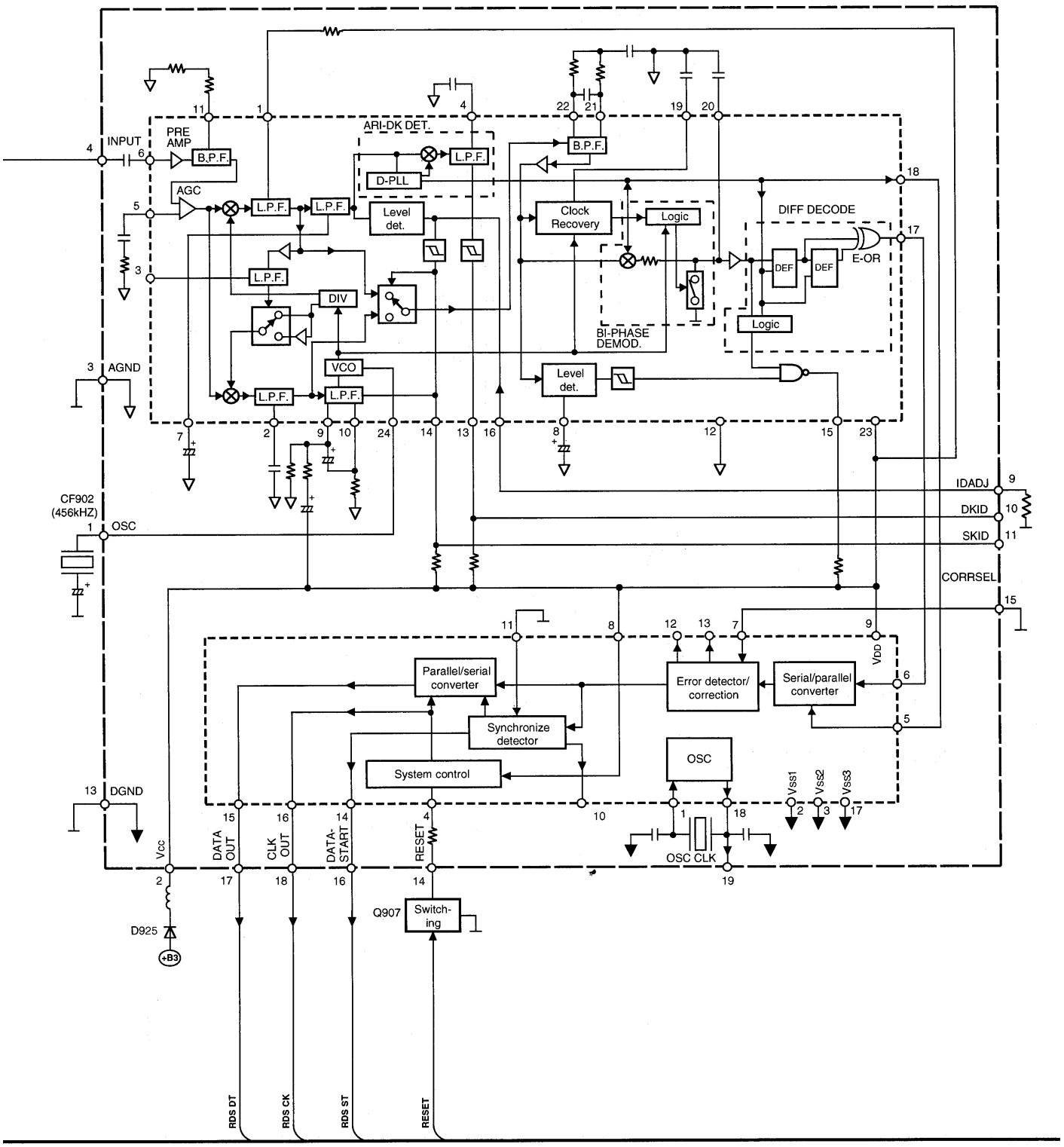
■ Wiring Connection Diagram

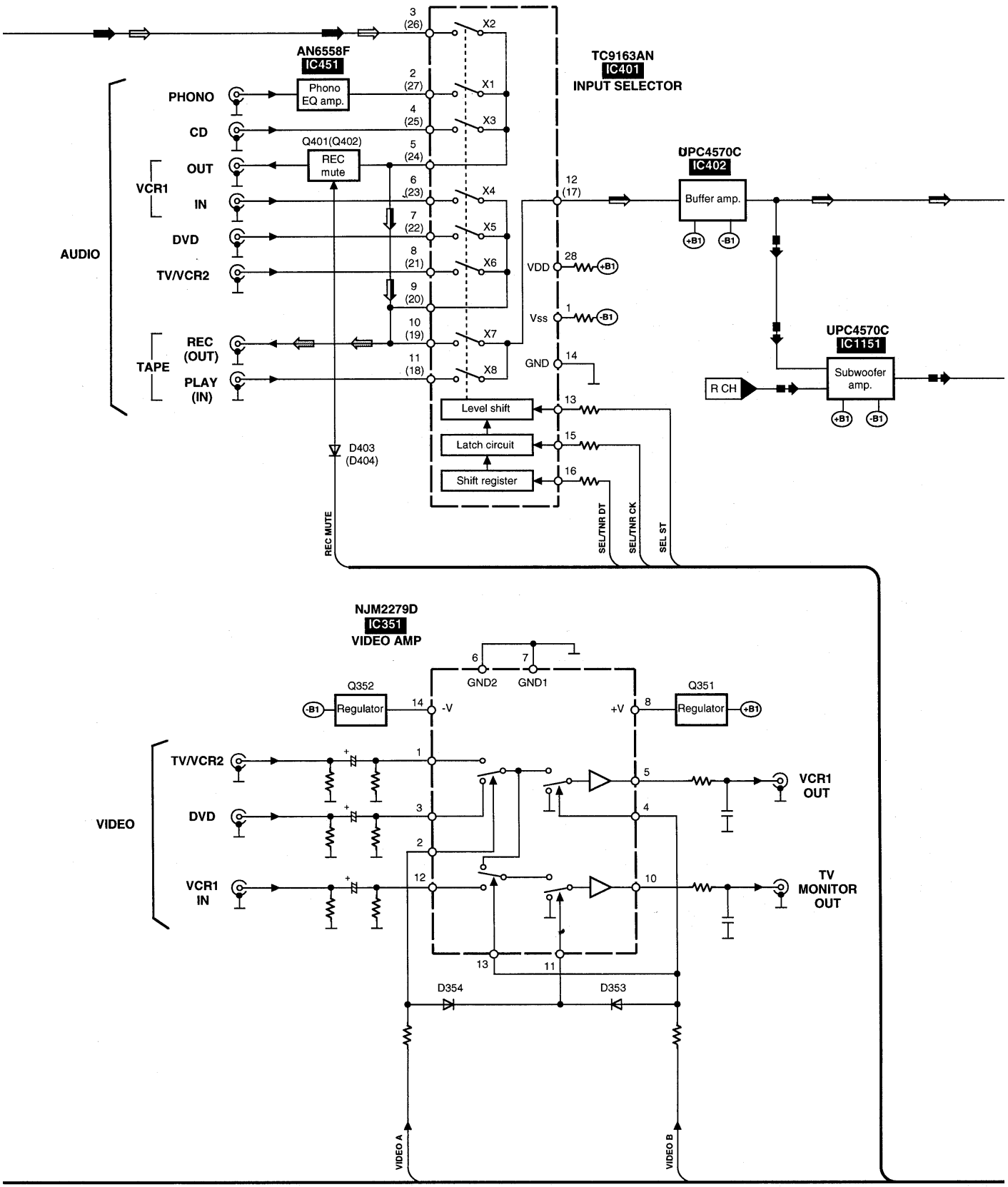


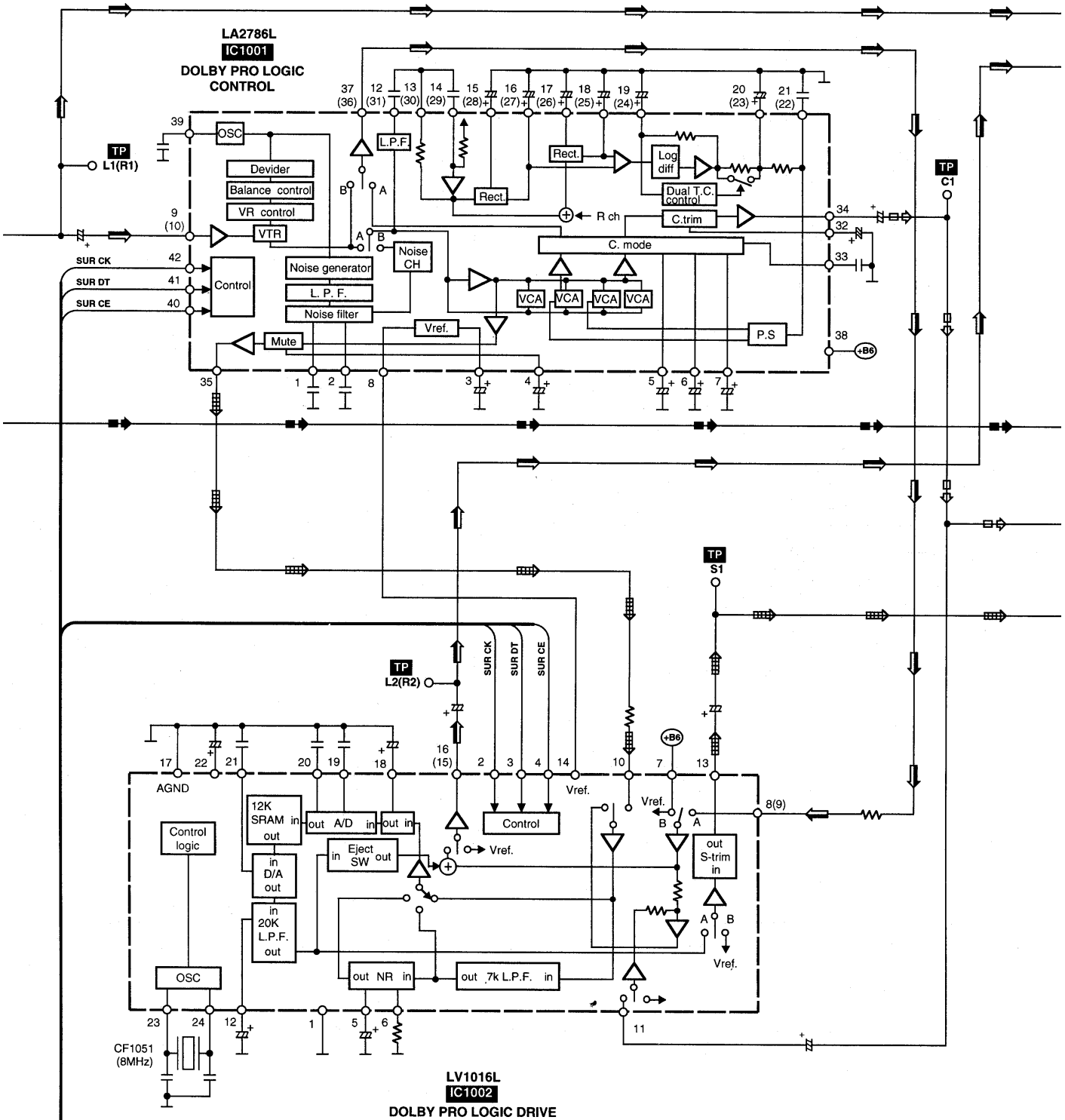
■ Block Diagram

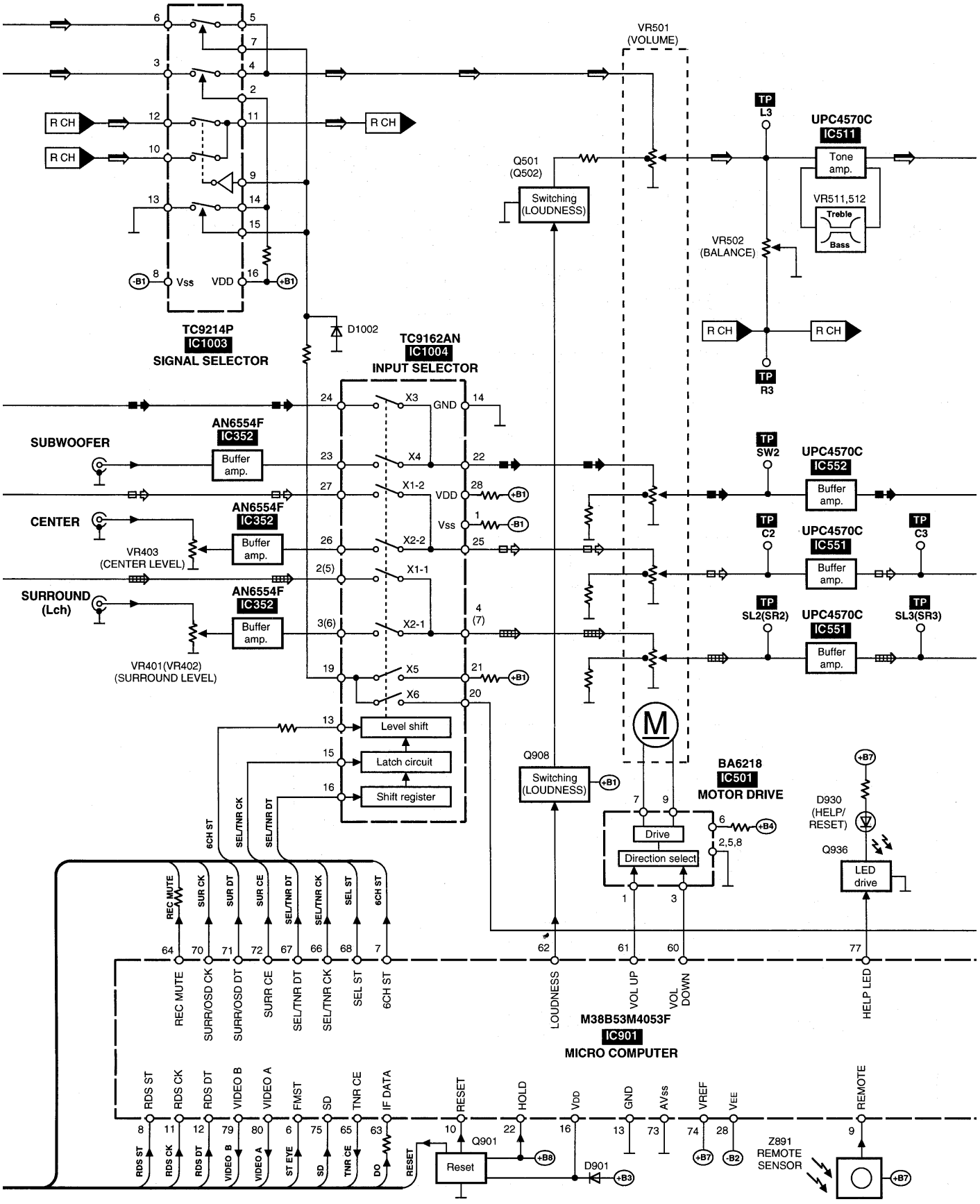


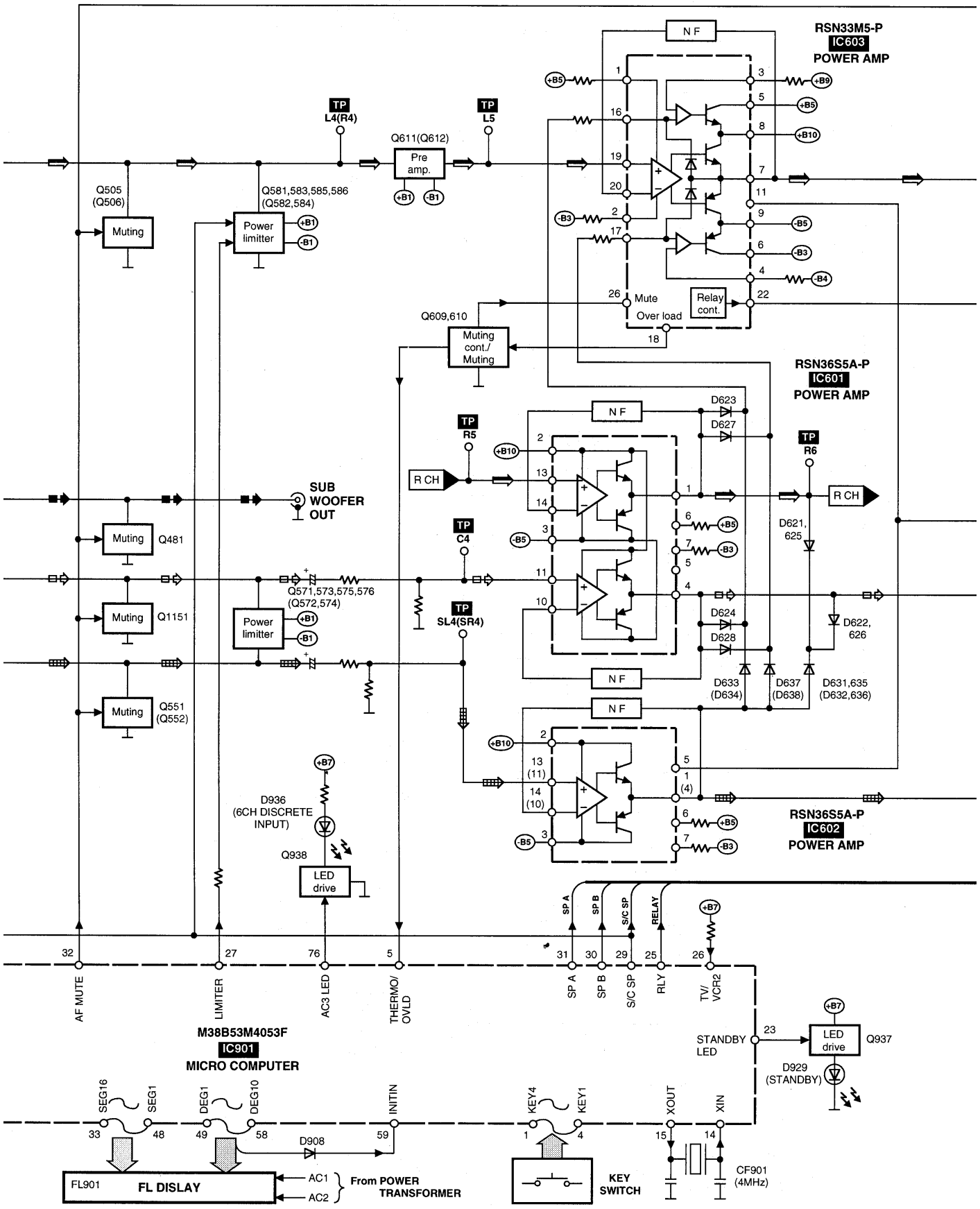
STK311-010
IC902
RDS DECODER

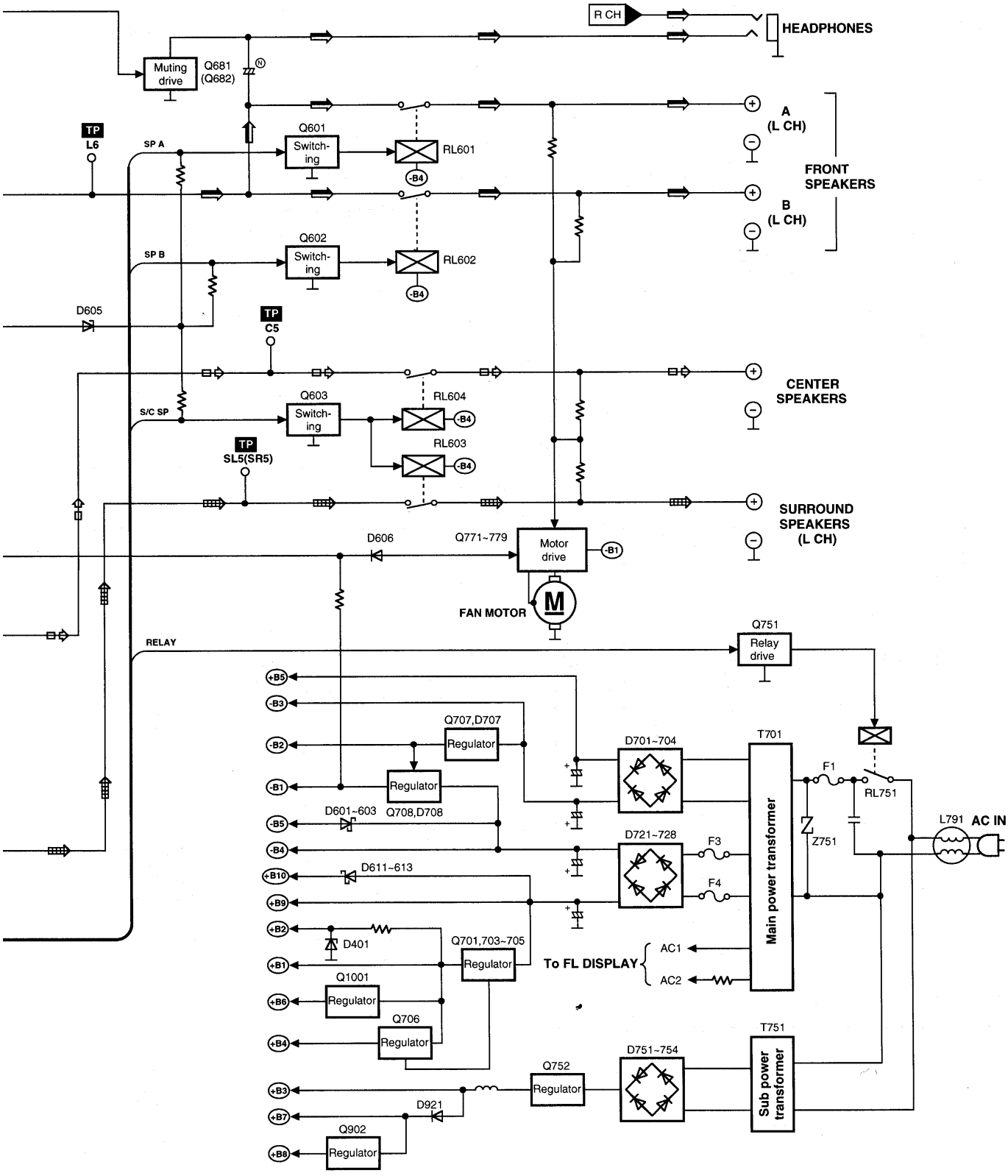



AN6558F
IC451
Phono EQ amp.
Q401(Q402)
REC mute
TC9163AN
IC401
INPUT SELECTOR
UPC4570C
IC402
Buffer amp.
UPC4570C
IC1151
Subwoofer amp.
R CH
AUDIO
PHONO
CD
VCR1
OUT
IN
DVD
TV/VCR2
TAPE
REC (OUT)
PLAY (IN)
X1
X2
X3
X4
X5
X6
X7
X8
VDD
Vss
GND
Level shift
Latch circuit
Shift register
D403
(D404)
REC MUTE
SEL/TNR DT
SEL/TNR CK
SEL ST
NJM2279D
IC351
VIDEO AMP
GND2
GND1
Q352
Q351
Regulator
-V
+V
VIDEO
TV/VCR2
DVD
VCR1
IN
VCR1
OUT
TV
MONITOR
OUT
D354
D353
VIDEO A
VIDEO B


LA2786L
IC1001
DOLBY PRO LOGIC
CONTROL
TP
L1(R1)
OSC
Devider
Balance control
VR control
VTR
SUR CK
SUR DT
SUR CE
Control
Noise generator
L. P. F.
Noise filter
Mute
Noise
CH
L.P.F.
Rect.
Rect.
Log
diff
Dual T.C.
control
R ch
C.trim
C. mode
VCA
VCA
VCA
VCA
Vref.
P.S
TP
C1
TP
S1
TP
L2(R2)
AGND
12K
SRAM in
out
out A/D in
out in
Control
Vref.
Control
logic
in
Eject
SW
out
in
D/A
out
in
20K
L.P.F.
out
out
S-trim
in
OSC
out NR in
out 7k L.P.F. in
CF1051
(8MHz)
LV1016L
IC1002
DOLBY PRO LOGIC DRIVE


VR501
(VOLUME)
TP
L3
UPC4570C
IC511
Tone
amp.
VR511,512
Treble
Bass
Q501
(Q502)
Switching
(LOUDNESS)
VR502
(BALANCE)
R CH
R CH
R CH
R CH
TP
R3
TC9214P
IC1003
SIGNAL SELECTOR
D1002
TC9162AN
IC1004
INPUT SELECTOR
Vss
VDD
-B1
+B1
AN6554F
IC352
SUBWOOFER
Buffer
amp.
CENTER
VR403
(CENTER LEVEL)
SURROUND
(Lch)
VR401(VR402)
(SURROUND LEVEL)
X3
X4
X1-2
X2-2
X1-1
X2-1
X5
X6
GND
VDD
Vss
Level shift
Latch circuit
Shift register
TP
SW2
UPC4570C
IC552
TP
C2
UPC4570C
IC551
TP
C3
TP
SL2(SR2)
UPC4570C
IC551
TP
SL3(SR3)
M
Q908
Switching
(LOUDNESS)
BA6218
IC501
MOTOR DRIVE
Drive
Direction select
D930
(HELP/
RESET)
Q936
LED
drive
6CH ST
SEL/TNR CK
SEL/TNR DT
REC MUTE
SUR CK
SUR DT
SUR CE
SEL/TNR DT
SEL/TNR CK
SEL ST
6CH ST
REC MUTE
SURR/OSD CK
SURR/OSD DT
SURR CE
SEL/TNR DT
SEL/TNR CK
SEL ST
6CH ST
LOUDNESS
VOL UP
VOL DOWN
HELP LED
M38B53M4053F
IC901
MICRO COMPUTER
RDS ST
RDS CK
RDS DT
VIDEO B
VIDEO A
FMST
SD
TNR CE
IF DATA
RESET
HOLD
VDD
GND
AVss
VREF
VEE
REMOTE
Q901
Reset
D901
Z891
REMOTE
SENSOR


RSN33M5-P
IC603
POWER AMP
N F
TP L4(R4)
TP L5
Q611(Q612)
Pre amp.
Q505 (Q506)
Muting
Q581,583,585,586 (Q582,584)
Power limitter
Mute
Over load
Relay cont.
Q609,610
Muting cont./ Muting
RSN36S5A-P
IC601
POWER AMP
TP R5
TP R6
R CH
SUB WOOFER OUT
Muting Q481
Muting Q1151
Muting Q551 (Q552)
Q571,573,575,576 (Q572,574)
TP C4
TP SL4(SR4)
D623
D627
D624
D628
D621, 625
D622, 626
D633 (D634)
D637 (D638)
D631,635 (D632,636)
RSN36S5A-P
IC602
POWER AMP
D936 (6CH DISCRETE INPUT)
Q938
LED drive
AF MUTE
LIMITER
AC3 LED
THERMO/ OVLD
SP A
SP B
S/C SP
RLY
TV/ VCR2
M38B53M4053F
IC901
MICRO COMPUTER
STANDBY LED
LED drive
Q937
D929 (STANDBY)
SEG16
SEG1
DEG1
DEG10
INITIN
KEY4
KEY1
XOUT
XIN
D908
FL901
FL DISLAY
AC1
AC2
From POWER TRANSFORMER
KEY SWITCH
CF901 (4MHz)



Notes

1) ⇨: FM signal ➡: AM signal ⇨: FM OSC signal ➡: AM OSC signal
⇨: Main signal ⇨: REC out signal ⇨: Center speaker drive signal
⇨: Surround speaker drive signal ➡: Subwoofer speaker drive signal

2) ( ) indicates pin No. Right channel.

■ Replacement Parts List

Notes:
*Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*[M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0342-K	TOP CABINET	1	[M]
2	RGR0252E-A	REAR PANEL	1	[M] (E, EG)
2	RGR0252E-B	REAR PANEL	1	[M] (EB)
3	RGW0243A-K	VOLUME KNOB	1	[M]
4	RKA0079-A	FOOT	4	[M]
5	RKQ0089-J	PCB SUPPORT	12	[M]
7	RMK0350	BOTTOM CHASSIS	1	[M]
8	RMN0372	FL HOLDER	1	[M]
9	SJS9231A	AC INLET COVER	1	[M]
10	RXX0182	HEAT SINK UNIT	1	[M]
11	RGU1389B-K	SELECTOR BUTTON	1	[M]
12	RGU1350E-K	MODE BUTTON	1	[M]
13	RGW0216-K	TONE KNOB	3	[M]
14	RHN90001	NUT	1	[M]
15	RGU1491-Q	6CH INPUT BUTTON	1	[M]
16	RFKGAAX710EK	FRONT PANEL ASS'Y	1	[M]
17	SNE2129-3	SCREW	4	[M]
18	XTBS3+8JFZ1	SCREW	31	[M]
19	XTB3+20JFZ	SCREW	12	[M]
20	XTB3+8FFZ	SCREW	4	[M]
21	RMN0450	LED SUPPORT	1	[M]
22	XTW3+15T	SCREW	7	[M]
23	RHD26016	SCREW	1	[M]
24	XTBS26+10J	SCREW	17	[M]
25	RMN0313	LED SUPPORT	2	[M]
26	RMN0415	LED COVER	1	[M]
27	XTB3+30J	SCREW	2	[M]
28	REM0069	FAN	1	[M]
29	RGU1492-K	MUTE/SLEEP BUTTON	1	[M]
30	RGU1490-Q	SFC(5)BUTTON	1	[M]
31	RGU1352L-K	DOLBY BUTTON	1	[M]
32	RGU1398-Q	HELP BUTTON	1	[M]
34	RWJ1812150KK	WIRE(12P)	1	[M]
35	RWJ1803290KQ	WIRE(3P)	2	[M]
A1	RAK-SA750WHP	REMOTE CONTROL	1	[M]
A2	RSA0010	LOOP ANTENNA UNIT	1	[M]
⚠ A3	RJA0019-2K	AC CORD	1	[M] (E, EG)
⚠ A3	VJA0733	AC CORD	1	[M] (EB)
A4	RSA0007	FM ANTENNA	1	[M]
A5〈1A〉	RQT3970-B	INSTRUCTION MANUAL	1	[M] (EB)
A5〈1B〉	RQT3971-E	INSTRUCTION MANUAL	1	[M] (E)
A5〈1C〉	RQT3972-D	INSTRUCTION MANUAL	1	[M] (EG)
A5〈1D〉	RQT3973-H	INSTRUCTION MANUAL	1	[M] (EG)
A5〈1E〉	RQT4006-1R	INSTRUCTION MANUAL	1	[M] (E)
A6	RQA0117	WARRANTY CARD	1	[M]
A7	RQCB0169	SERVICE CENTER LIST	1	[M]
C101	ECBT1C103NS5	16V 0.01U	1	[M]
C103	ECBT1C103NS5	16V 0.01U	1	[M]
C104	ECBT1H102KB5	50V 1000P	1	[M]
C105	ECBT1H470J5	50V 47P	1	[M]
C106	ECBT1C103NS5	16V 0.01U	1	[M]
C107	ECBT1H473ZF5	50V 0.047U	1	[M]
C108	ECBT1H8R2KC5	50V 8.2P	1	[M]
C109, 10	ECBT1C103NS5	16V 0.01U	2	[M]
C111	ECEA1EKA4R7B	25V 4.7U	1	[M]
C112	ECBT1C103NS5	16V 0.01U	1	[M]
C113	ECBT1H102KB5	50V 1000P	1	[M]
C114	ECEA1HKA3R3B	50V 3.3U	1	[M]
C115	ECEA1EKA4R7B	25V 4.7U	1	[M]
C116	ECBT1C822MS5	16V 8200P	1	[M]
C117	ECQB1H471JF3	50V 470P	1	[M]
C118, 19	ECQB1H103JF3	50V 0.01U	2	[M]
C120, 21	ECEA1HKA010B	50V 1U	2	[M]
C122	ECEA1HKA2R2B	50V 2.2U	1	[M]
C123	ECEA1HKA010B	50V 1U	1	[M]
C124	ECBT1H102KB5	50V 1000P	1	[M]
C125	ECBT1H150JC5	50V 15P	1	[M]
C126	ECBT1H104ZF5	50V 0.1U	1	[M]
C127	ECEA1CKA220B	16V 22U	1	[M]
C128	ECBT1C103NS5	16V 0.01U	1	[M]
C129, 30	ECEA0JKA101B	6.3V 100U	2	[M]
C131	ECBT1C103NS5	16V 0.01U	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C132	ECBT1H102KB5	50V 1000P	1	[M]
C133	ECBT1H150JC5	50V 15P	1	[M]
C134	ECBT1H180JC5	50V 18P	1	[M]
C135, 36	ECBT1C103KS5	16V 0.01U	2	[M]
C137, 38	ECBT1H561KB5	50V 560P	2	[M]
C139, 40	ECQB1H682JF3	50V 6800P	2	[M]
C141-44	ECEA1HKA010B	50V 1U	4	[M]
C145	ECBT1H220JC5	50V 22P	1	[M]
C146	ECBT1H331KB5	50V 330P	1	[M]
C147	ECBT1H102KB5	50V 1000P	1	[M]
C148, 49	ECBT1C103NS5	16V 0.01U	2	[M]
C150	ECBT1H104ZF5	50V 0.1U	1	[M]
C172	ECBT1H331KB5	50V 330P	1	[M]
C173	ECEA1CKA220B	16V 22U	1	[M]
C174	ECEA1CKA101B	16V 100U	1	[M]
C175, 76	ECBT1C103NS5	16V 0.01U	2	[M]
C181	ECBT1H471KB5	50V 470P	1	[M]
C196	ECBT1H102KB5	50V 1000P	1	[M]
C308, 09	ECEA0JKA101B	6.3V 100U	2	[M]
C311, 12	ECEA1EKA4R7B	25V 4.7U	2	[M]
C329, 30	ECBT1H470J5	50V 47P	2	[M]
C351, 52	ECEA0JKA101B	6.3V 100U	2	[M]
C354, 55	ECBT1H104ZF5	50V 0.1U	2	[M]
C357, 58	ECBT1E103ZF5	25V 0.01U	2	[M]
C373-75	ECEA1CKA470B	16V 47U	3	[M]
C381-88	ECEA1HKA3R3B	50V 3.3U	8	[M]
C401, 02	ECEA1VKA4R7B	35V 4.7U	2	[M]
C403, 04	ECBT1E103ZF5	25V 0.01U	2	[M]
C405, 06	ECBT1H101KB5	50V 100P	2	[M]
C409, 10	ECEA1EU220B	25V 22U	2	[M]
C411, 12	ECBT1H101KB5	50V 100P	2	[M]
C413, 14	ECEA1CU100B	16V 10U	2	[M]
C415, 16	ECBT1E103ZF5	25V 0.01U	2	[M]
C417, 18	ECBT1H101KB5	50V 100P	2	[M]
C419-22	ECBT1H331KB5	50V 330P	4	[M]
C423-26	ECBT1H101KB5	50V 100P	4	[M]
C427, 28	ECBT1H221KB5	50V 220P	2	[M]
C428A	ECEA1HKN3R3B	50V 3.3U	1	[M]
C431, 32	ECEA1CU100B	16V 10U	2	[M]
C433, 34	ECBT1H101KB5	50V 100P	2	[M]
C440	ECBT1E103ZF5	25V 0.01U	1	[M]
C451, 52	ECEA1HKA4R7B	50V 4.7U	2	[M]
C453, 54	ECBT1H100JC5	50V 10P	2	[M]
C455, 56	ECBT1H102KB5	50V 1000P	2	[M]
C457, 58	ECEA1AKA330B	10V 33U	2	[M]
C459, 60	ECFR1E223KR	25V 0.022U	2	[M]
C461, 62	ECFR1E682KR	25V 6800P	2	[M]
C463, 64	ECEA1HKA4R7B	50V 4.7U	2	[M]
C465, 66	ECBT1E103ZF5	25V 0.01U	2	[M]
C469, 70	ECBT1H181KB5	50V 180P	2	[M]
C471, 72	ECEA1VKA4R7B	35V 4.7U	2	[M]
C473, 74	ECBT1E103ZF5	25V 0.01U	2	[M]
C475	ECBT1H101KB5	50V 100P	1	[M]
C480	ECBT1E103ZF5	25V 0.01U	1	[M]
C482	ECEA1HKA4R7B	50V 4.7U	1	[M]
C483	ECBT1H101KB5	50V 100P	1	[M]
C484	ECEA1HKA4R7B	50V 4.7U	1	[M]
C491-94*	ECBT1H101KB5	50V 100P	4	[M]
C501, 02	ECFR1E333KR	25V 0.033U	2	[M]
C503, 04	ECEA0JKA101B	6.3V 100U	2	[M]
C505, 06	ECFR1C104MR	16V 0.1U	2	[M]
C507	ECBT1E103ZF5	25V 0.01U	1	[M]
C511, 12	ECEA1HKA3R3B	50V 3.3U	2	[M]
C513, 14	ECBT1H150J5	50V 15P	2	[M]
C515, 16	ECBT1H221KB5	50V 220P	2	[M]
C517, 18	ECBT1H330J5	50V 33P	2	[M]
C519-22	ECEA1VKA4R7B	35V 4.7U	4	[M]
C523, 24	ECFR1E123KR	25V 0.012U	2	[M]
C525, 26	ECQV1H683JM3	50V 0.068U	2	[M]
C527, 28	ECBT1C562KR5	16V 5600P	2	[M]
C529, 30	ECQB1H273JF3	50V 0.027U	2	[M]
C531, 32	ECBT1E103ZF5	25V 0.01U	2	[M]
C533, 34	ECEA1CKA100B	16V 10U	2	[M]
C535	ECBT1H104ZF5	50V 0.1U	1	[M]
C536	ECBT1E103ZF5	25V 0.01U	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C537-39	ECEA1CKA100B	16V 10U	3	[M]
C541, 42	ECEA1CKA470B	16V 47U	2	[M]
C551, 52	ECEA1HKA3R3B	50V 3.3U	2	[M]
C553, 54	ECBT1H101KB5	50V 100P	2	[M]
C555, 56	ECBT1H221KB5	50V 220P	2	[M]
C557, 58	ECBT1E103ZF5	25V 0.01U	2	[M]
C559, 60	ECEA1CKA100B	16V 10U	2	[M]
C561, 62	ECEA1HKA3R3B	50V 3.3U	2	[M]
C563	ECBT1H101KB5	50V 100P	1	[M]
C565	ECBT1H221KB5	50V 220P	1	[M]
C567, 68	ECBT1E103ZF5	25V 0.01U	2	[M]
C581-84	ECEA0JKA101B	6.3V 100U	4	[M]
C601, 02	ECEA1HKN3R3B	50V 3.3U	2	[M]
C603, 04	ECBT1H681KB5	50V 680P	2	[M]
C605, 06	ECEA1JU330B	63V 33U	2	[M]
C607, 08	ECCR1H100K5	50V 10P	2	[M]
C609, 10	ECBT1H221KB5	50V 220P	2	[M]
C611, 12	ECQV1H473JM3	50V 0.047U	2	[M]
C613, 14	ECBT1H681KB5	50V 680P	2	[M]
C615	ECEA1JU330B	63V 33U	1	[M]
C616	ECEA2AU100B	100V 10U	1	[M]
C617	ECEA1JU220B	63V 22U	1	[M]
C618	ECEA2AN2R2SB	100V 2.2U	1	[M]
C619	ECBT1H102KB5	50V 1000P	1	[M]
C621, 22	ECEA2AU100B	100V 10U	2	[M]
C631-37	ECKR1H223ZF5	50V 0.022U	7	[M]
C639, 40	ECKR1H122KB5	50V 1200P	2	[M]
C649, 50	ECEA2AU100B	100V 10U	2	[M]
C651, 52	ECEA1HKN3R3B	50V 3.3U	2	[M]
C653, 54	ECBT1H681KB5	50V 680P	2	[M]
C655, 56	ECEA1JU330B	63V 33U	2	[M]
C657, 58	ECCR1H100K5	50V 10P	2	[M]
C659, 60	ECBT1H221KB5	50V 220P	2	[M]
C661, 62	ECQV1H473JM3	50V 0.047U	2	[M]
C663, 64	ECBT1H681KB5	50V 680P	2	[M]
C667	ECEA1HKN3R3B	50V 3.3U	1	[M]
C668	ECBT1H681KB5	50V 680P	1	[M]
C669	ECEA1JU330B	63V 33U	1	[M]
C670	ECCR1H100K5	50V 10P	1	[M]
C671, 72	ECEA2AU100B	100V 10U	2	[M]
C674	ECQV1H473JM3	50V 0.047U	1	[M]
C675	ECBT1H681KB5	50V 680P	1	[M]
C680	ECBT1H221KB5	50V 220P	1	[M]
C681, 82	ECEA1HN100SB	50V 10U	2	[M]
C683, 84	ECBT1C332KR5	16V 3300P	2	[M]
C685	ECBT1E103ZF5	25V 0.01U	1	[M]
C691	ECBT1H102KB5	50V 1000P	1	[M]
C701	ECBT1E103ZF5	25V 0.01U	1	[M]
C702	ECQE2104KF3	250V 0.1U	1	[M]
⚠ C703, 04	ECOS1JP682CB	63V 6800U	2	[M]
⚠ C705, 06	ECOS1VP562BB	35V 5600U	2	[M]
C707	ECA1VM101B	35V 100U	1	[M]
C708	ECKR1H103ZF5	50V 0.01U	1	[M]
C709	ECEA1CKA330B	16V 33U	1	[M]
C710	ECBT1E103ZF5	25V 0.01U	1	[M]
C711	ECKR1H103ZF5	50V 0.01U	1	[M]
C712	ECEA1HKA100B	50V 10U	1	[M]
C713	ECKR1H103ZF5	50V 0.01U	1	[M]
C714	ECEA1EKA470B	25V 47U	1	[M]
C715	ECEA1CKA101B	16V 100U	1	[M]
C721	ECQE2104KF3	250V 0.1U	1	[M]
⚠ C751	ECKWRS102MBC	1000P	1	[M]
C752	ECKR1H103ZF5	50V 0.01U	1	[M]
⚠ C753	ECA1EM102B	25V 1000U	1	[M]
C754	ECBT1E103ZF5	25V 0.01U	1	[M]
C755	ECEA1CKA470B	16V 47U	1	[M]
C757	ECEA1CKA100B	16V 10U	1	[M]
C758	ECEA1AKA101B	10V 100U	1	[M]
C771, 72	ECEA1HKA4R7B	50V 4.7U	2	[M]
C773	ECBT1E223ZF5	25V 0.022U	1	[M]
C774	ECEA0JU101B	6.3V 100U	1	[M]
C775	ECFR1E223KR	25V 0.022U	1	[M]
C901	ECA0JM102B	6.3V 1000U	1	[M]
C902	ECBT1H104ZF5	50V 0.1U	1	[M]
C903	ECBT1E103ZF5	25V 0.01U	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C904	ECA0JM102B	6.3V 1000U	1	[M]
C906	ECEA0JKA101B	6.3V 100U	1	[M]
C908	ECBT1E103ZF5	25V 0.01U	1	[M]
C909-12	ECEA1VKA220B	35V 22U	4	[M]
C913, 14	ECEA1VKA100B	35V 10U	2	[M]
C916	ECEA1HKA010B	50V 1U	1	[M]
C917	ECEA1HKAR47B	50V 0.47U	1	[M]
C918	ECEA0JKA221B	6.3V 220U	1	[M]
C920	ECEA1HKA010B	50V 1U	1	[M]
C932-34	ECBT1H101KB5	50V 100P	3	[M]
C937	ECBT1H101KB5	50V 100P	1	[M]
C955, 56	ECBT1H101KB5	50V 100P	2	[M]
C1001, 02	ECEA1HKA010B	50V 1U	2	[M]
C1003, 04	ECEA1HKA3R3B	50V 3.3U	2	[M]
C1005	ECEA1HKA010B	50V 1U	1	[M]
C1007	ECFR1E223KR	25V 0.022U	1	[M]
C1008	ECFR1E473KR	25V 0.047U	1	[M]
C1009	ECEA0JU221B	6.3V 220U	1	[M]
C1010-13	ECEA1CKA100B	16V 10U	4	[M]
C1014	ECEA0JU221B	6.3V 220U	1	[M]
C1015, 16	ECQV1H104JM3	50V 0.1U	2	[M]
C1017	ECEA1HKAR47B	50V 0.47U	1	[M]
C1018	ECEA1HKA4R7B	50V 4.7U	1	[M]
C1019	ECEA1HKAR47B	50V 0.47U	1	[M]
C1020	ECEA1HKA4R7B	50V 4.7U	1	[M]
C1021	ECEA1HKAR15B	50V 0.15U	1	[M]
C1022	ECEA1HKA3R3B	50V 3.3U	1	[M]
C1023	ECQV1H154JM3	50V 0.15U	1	[M]
C1024	ECEA1HKA3R3B	50V 0.15U	1	[M]
C1025	ECQV1H154JM3	50V 0.15U	1	[M]
C1026	ECEA1HKAR15B	50V 0.15U	1	[M]
C1027	ECEA1HKA4R7B	50V 4.7U	1	[M]
C1028	ECEA1HKAR47B	50V 0.47U	1	[M]
C1029	ECEA1HKA4R7B	50V 4.7U	1	[M]
C1030	ECEA1HKAR47B	50V 0.47U	1	[M]
C1031, 32	ECQV1H104JM3	50V 0.1U	2	[M]
C1033	ECEA0JKA470B	6.3V 47U	1	[M]
C1034	ECQV1H474JM3	50V 0.47U	1	[M]
C1035	ECBT1H681KB5	50V 680P	1	[M]
C1036-38	ECBT1H101KB5	50V 100P	3	[M]
C1039	ECEA1CU101B	16V 100U	1	[M]
C1040	ECEA1CKA100B	16V 10U	1	[M]
C1041	ECBT1E103ZF5	25V 0.01U	1	[M]
C1051	ECEA1HKA2R2B	50V 2.2U	1	[M]
C1052	ECEA1HKAR33B	50V 0.33U	1	[M]
C1053	ECEA1HKA3R3B	50V 3.3U	1	[M]
C1054	ECEA0JU221B	6.3V 220U	1	[M]
C1055	ECEA1HKAR47B	50V 0.47U	1	[M]
C1056	ECFR1E823KR	25V 0.082U	1	[M]
C1057	ECFR1E332KR	25V 3300P	1	[M]
C1058	ECFR1E823KR	25V 0.082U	1	[M]
C1059	ECEA1CKA101B	16V 100U	1	[M]
C1060	ECBT1E223ZF5	25V 0.022U	1	[M]
C1062	ECBT1E223ZF5	25V 0.022U	1	[M]
C1063	ECEA1CKA101B	16V 100U	1	[M]
C1064	ECEA1HKA010B	50V 1U	1	[M]
C1065	ECBT1H681KB5	50V 680P	1	[M]
C1067, 68	ECBT1C152KR5	16V 1500P	2	[M]
C1151	ECEA1HKA010B	50V 1U	1	[M]
C1152	ECFR1C683KR	16V 0.068U	1	[M]
C1153	ECFR1C273KR	16V 0.027U	1	[M]
C1154	ECEA1VKA4R7B	35V 4.7U	1	[M]
C1156, 57	ECBT1E103ZF5	25V 0.01U	2	[M]
C1159	ECEA1HKA010B	50V 1U	1	[M]
C1161	ECBT1H101KB5	50V 100P	1	[M]
CF201	RLFFETNGD01L	CERAMIC FILTER	1	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	1	[M]
CF901	RVBCST4R00MT	CERAMIC FILTER	1	[M]
CF902	RSXZ456KM07M	CERAMIC FILTER	1	[M]
CF1051	EF0EC8004T4	CERAMIC FILTER	1	[M]
CN101, 02	RJU057W007	CONNECTOR(7P)	2	[M]
CN401-05	RJU100W07	CONNECTOR(7P)	5	[M]
CN501	RJU100W07	CONNECTOR(7P)	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
CN502	RJU100W04	CONNECTOR(4P)	1	[M]
CN751	SJS305-1	CONNECTOR(3P)	1	[M]
CN752	RJS1A6603	CONNECTOR(3P)	1	[M]
CN901-05	RJU003K010M1	CONNECTOR(10P)	5	[M]
CN1001, 02	RJU100W07	CONNECTOR(7P)	2	[M]
CP101, 02	RJT057W007-1	CONNECTOR(7P)	2	[M]
CP401-05	RJT100W07	CONNECTOR(7P)	5	[M]
CP501	RJT100W07	CONNECTOR(7P)	1	[M]
CP502	RJT100W04	CONNECTOR(4P)	1	[M]
CP771	RJP3G4YA	CONNECTOR(3P)	1	[M]
CP901-05	RJT003K010-1	CONNECTOR(10P)	5	[M]
CP1001, 02	RJT100W07	CONNECTOR(7P)	2	[M]
⚠ D101	MA4051MTA	DIODE	1	[M]
D102	MA165TA	DIODE	1	[M]
⚠ D351, 52	MTZJ5R6BTA	DIODE	2	[M]
D353, 54	RVD1SS133TA	DIODE	2	[M]
⚠ D401	MTZJ7R5CTA	DIODE	1	[M]
D403, 04	RVD1SS133TA	DIODE	2	[M]
D581-84	MTZJ3R0ATA	DIODE	4	[M]
D585, 86	RVD1SS133TA	DIODE	2	[M]
D601-03	SB360L6508	DIODE	3	[M]
D604	RVD1SS133TA	DIODE	1	[M]
D605	MTZJ6R2BTA	DIODE	1	[M]
D606-08	RVD1SS133TA	DIODE	3	[M]
D611-13	SB360L6508	DIODE	3	[M]
D621-28	MA167ATA	DIODE	8	[M]
D631-38	MA167ATA	DIODE	8	[M]
D654, 55	RVD1SS133TA	DIODE	2	[M]
D658-60	RVD1SS133TA	DIODE	3	[M]
⚠ D701-04	P300DLF	DIODE	4	[M]
⚠ D705	MTZJ6R2BTA	DIODE	1	[M]
⚠ D707	MTZJ27DTA	DIODE	1	[M]
⚠ D708	MTZJ15CTA	DIODE	1	[M]
⚠ D721-28	P300DLF	DIODE	8	[M]
⚠ D751-54	1SR35200TB	DIODE	4	[M]
D755	RVD1SS133TA	DIODE	1	[M]
⚠ D756	MTZJ6R8BTA	DIODE	1	[M]
D771, 72	RVD1SS133TA	DIODE	2	[M]
D773	MTZJ9R1CTA	DIODE	1	[M]
D774	RVD1SS133TA	DIODE	1	[M]
D781, 82	RVD1SS133TA	DIODE	2	[M]
D901	1SS291TA	DIODE	1	[M]
D903	MTZJ4R7BTA	DIODE	1	[M]
D908	MA167ATA	DIODE	1	[M]
D921	RVD1SS133TA	DIODE	1	[M]
D923	RVD1SS133TA	DIODE	1	[M]
⚠ D924	MTZJ3R9ATA	DIODE	1	[M]
D925	RVD1SS133TA	DIODE	1	[M]
D929	LN846RP	LED	1	[M]
D930	SLR342DC	LED	1	[M]
D936	SLR342MC	LED	1	[M]
⚠ D1001	MTZJ10CTA	DIODE	1	[M]
D1002	MA700ATA	DIODE	1	[M]
E401	SNE1004-2	EARTH TERMINAL	1	[M]
E601	SNE1004-2	EARTH TERMINAL	1	[M]
⚠ F1	XBA2C25TB0	FUSE	1	[M]
⚠ F3, F4	XBA2C63TB0	FUSE	2	[M]
FC701, 02	EYF52BC	FUSE HOLDER	2	[M]
FC705-08	EYF52BC	FUSE HOLDER	4	[M]
FL901	RSL0233-F	FL	1	[M]
HP601	RJJ63TA01	HP JACK	1	[M]
IC101	LA1832A	IC	1	[M]
IC102	LC7218	IC	1	[M]
IC351	NJM2279D	IC	1	[M]
IC352	AN6554F	IC	1	[M]
IC401	TC9163AN	IC	1	[M]
IC402	UPC4570C	IC	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC451	AN6558F	IC	1	[M]
IC501	BA6218	IC	1	[M]
IC511	UPC4570C	IC	1	[M]
IC551, 52	UPC4570C	IC	2	[M]
⚠ IC601, 02	RSN36S5A-P	IC	2	[M]
⚠ IC603	RSN33M5-P	IC	1	[M]
IC901	M38B53M4053F	IC	1	[M]
IC902	STK311-010	IC	1	[M]
IC1001	LA2786L	IC	1	[M]
IC1002	LV1016L	IC	1	[M]
IC1003	TC9214P	IC	1	[M]
IC1004	TC9162AN	IC	1	[M]
IC1151	UPC4570C	IC	1	[M]
JK101	RJH4202	ANT TERMINAL	1	[M]
JK351	SJFD7-5	VCR1 IN TERMINAL	1	[M]
JK353	SJF3069-3N	TV, VCR, DVD JACK	1	[M]
JK354	SJF3069-16N	SURROUND TERMINAL	1	[M]
JK401	SJF3068-7N	PHONO TERMINAL	1	[M]
JK402-04	SJF3069N	TAPE, DVD, VCR JACK	3	[M]
JK405	SJFD7	SUB WOOFER	1	[M]
JK406	SJF3068-7N	CD TERMINAL	1	[M]
JK601	RJR0054	SP TERMINAL	1	[M]
JK602	RJH5601	SP TERMINAL	1	[M]
JK603	RJR0054	SP TERMINAL	1	[M]
⚠ JK794	SJS9231-1B	AC INLET	1	[M]
L101	ELESN1R0MA	COIL	1	[M]
L103	ELEXTR47MA9	COIL	1	[M]
L105, 06	RLQZB822KT-D	COIL	2	[M]
L151	SLM1B10M-1M	COIL	1	[M]
L191	ELESNR56MA	COIL	1	[M]
L501, 02	RLQZP1R0KT-Y	COIL	2	[M]
L601, 02	RLQYR73MW-E	COIL	2	[M]
L651, 52	RLQYR73MW-E	COIL	2	[M]
L671	RLQYR73MW-E	COIL	1	[M]
L751	RLQB101KTA-Y	COIL	1	[M]
⚠ L791	SLQZ650MH49	COIL	1	[M]
L901	RLQB101KTA-Y	COIL	1	[M]
L902	RLQZP101KT-Y	COIL	1	[M]
L1051	RLQB101KTA-Y	COIL	1	[M]
P1	RPN0966-1	PAD	1	[M]
P2	RPFX0005	MIRAMAT BAG	1	[M]
P3	RPG3481	PACKING CASE	1	[M] (E)
P3	RPG3482	PACKING CASE	1	[M] (EB, EG)
P4	SPB1061	SHEET	1	[M]
P5	SPSD152	ACCESSORY BOX	1	[M]
Q101	2SC2787LTA	TRANSISTOR	1	[M]
Q103, 04	2SC2785FETA	TRANSISTOR	2	[M]
Q106	UN411FTA	TRANSISTOR	1	[M]
Q107, 08	2SC3311AR	TRANSISTOR	2	[M]
⚠ Q351	2SD592AQSTA	TRANSISTOR	1	[M]
⚠ Q352	2SB621AQSTA	TRANSISTOR	1	[M]
Q401, 02	2SK381BCDTA	TRANSISTOR	2	[M]
Q481	2SD1915FTA	TRANSISTOR	1	[M]
Q501, 02	2SJ40CDTA	TRANSISTOR	2	[M]
Q505, 06	2SD1915FTA	TRANSISTOR	2	[M]
Q551, 52	2SD1915FTA	TRANSISTOR	2	[M]
Q571, 72	2SA1309AQSTA	TRANSISTOR	2	[M]
Q573, 74	2SC3311AQSTA	TRANSISTOR	2	[M]
Q575	2SA1309AQSTA	TRANSISTOR	1	[M]
Q576	2SC3311AQSTA	TRANSISTOR	1	[M]
Q581, 82	2SA1309AQSTA	TRANSISTOR	2	[M]
Q583, 84	2SC3311AQSTA	TRANSISTOR	2	[M]
Q585, 86	2SA1309AQSTA	TRANSISTOR	2	[M]
Q601-03	DTA113ZSATP	TRANSISTOR	3	[M]
Q609	DTC114ES	TRANSISTOR	1	[M]
Q610	DTC114TS	TRANSISTOR	1	[M]
Q611, 12	2SC3311AQSTA	TRANSISTOR	2	[M]
Q681, 82	2SD1915FTA	TRANSISTOR	2	[M]
⚠ Q701	2SD2374PQAU	TRANSISTOR	1	[M]
⚠ Q703-05	2SC3311AQSTA	TRANSISTOR	3	[M]
⚠ Q706	2SC3940AQSTA	TRANSISTOR	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ Q707	2SA1534AQRTA	TRANSISTOR	1	[M]
⚠ Q708	2SB1548PQAU	TRANSISTOR	1	[M]
Q751	DTC143XSTP	TRANSISTOR	1	[M]
⚠ Q752	2SC3940AQSTA	TRANSISTOR	1	[M]
Q771	2SA933STA	TRANSISTOR	1	[M]
Q772	2SC3311AQSTA	TRANSISTOR	1	[M]
Q773	2SB621AQRSTA	TRANSISTOR	1	[M]
Q774	DTA114ESTP	TRANSISTOR	1	[M]
Q775	2SA1309AQSTA	TRANSISTOR	1	[M]
Q776	2SC3311AQSTA	TRANSISTOR	1	[M]
Q777	2SA1309AQSTA	TRANSISTOR	1	[M]
Q778	DTA114TSTP	TRANSISTOR	1	[M]
Q779	RVTDTA114TST	TRANSISTOR	1	[M]
Q901	DTC114YS	TRANSISTOR	1	[M]
⚠ Q902	2SA933SSTA	TRANSISTOR	1	[M]
Q907, 08	DTC114YS	TRANSISTOR	2	[M]
Q909	2SC3311AR	TRANSISTOR	1	[M]
Q936	DTC114YS	TRANSISTOR	1	[M]
Q937	DTA114YSTP	TRANSISTOR	1	[M]
Q938	DTC114YS	TRANSISTOR	1	[M]
⚠ Q1001	2SC3940AQSTA	TRANSISTOR	1	[M]
Q1151	2SD1915FTA	TRANSISTOR	1	[M]
R103	ERDS2TJ101T	1/4W 100	1	[M]
R104	ERDS2TJ102T	1/4W 1K	1	[M]
R105	ERDS2TJ471T	1/4W 470	1	[M]
R106	ERDS2FJ224	1/4W 220K	1	[M]
R107	ERDS2TJ471T	1/4W 470	1	[M]
R110	ERDS2TJ102T	1/4W 1K	1	[M]
R112	ERDS2TJ104T	1/4W 100K	1	[M]
R113	ERDS2TJ103T	1/4W 10K	1	[M]
R114	ERDS2TJ562T	1/4W 5.6K	1	[M]
R115	ERDS2TJ561T	1/4W 560	1	[M]
R116	ERDS2TJ102T	1/4W 1K	1	[M]
R117	ERDS2TJ473T	1/4W 47K	1	[M]
R118	ERDS2TJ562T	1/4W 5.6K	1	[M]
R119	ERDS2FJ183	1/4W 18K	1	[M]
R120	ERDS2TJ473T	1/4W 47K	1	[M]
R121	ERDS2TJ332T	1/4W 3.3K	1	[M]
R122	ERDS2FJ272	1/4W 2.7K	1	[M]
R124	ERDS2TJ271T	1/4W 270	1	[M]
R125, 26	ERDS2TJ472T	1/4W 4.7K	2	[M]
R127	ERDS2TJ103T	1/4W 10K	1	[M]
R128	ERDS2TJ820T	1/4W 82	1	[M]
R129	ERDS2TJ473T	1/4W 47K	1	[M]
R130, 31	ERDS2TJ102T	1/4W 1K	2	[M]
R132	ERDS2TJ103T	1/4W 10K	1	[M]
R133-37	ERDS2TJ102T	1/4W 1K	5	[M]
R139, 40	ERDS2FJ272	1/4W 2.7K	2	[M]
R141, 42	ERDS2TJ102T	1/4W 1K	2	[M]
R143, 44	ERDS2TJ222T	1/4W 2.2K	2	[M]
R145	ERDS2TJ102T	1/4W 1K	1	[M] (E, EB)
R145	ERDS2TJ561T	1/4W 560	1	[M] (E, EG)
R146	ERDS2TJ102T	1/4W 1K	1	[M] (E, EB)
R146	ERDS2TJ561T	1/4W 560	1	[M] (E, EG)
R147, 48	ERDS2TJ474T	1/4W 470K	2	[M]
R149	ERDS2FJ680	1/4W 68	1	[M]
R171, 72	ERDS2TJ102T	1/4W 1K	2	[M]
R173	ERDS2TJ471T	1/4W 470	1	[M]
R175	ERDS2TJ102T	1/4W 1K	1	[M]
R176	ERDS2TJ391T	1/4W 390	1	[M]
R181	ERDS2TJ332T	1/4W 3.3K	1	[M]
R301-03	ERDS2TJ750T	1/4W 75	3	[M]
R341	ERDS2TJ273T	1/4W 27K	1	[M]
R342-44	ERDS2TJ104T	1/4W 100K	3	[M]
R345, 46	ERDS2TJ273T	1/4W 27K	2	[M]
R347-52	ERDS2TJ104T	1/4W 100K	6	[M]
R359	ERDS2TJ750T	1/4W 75	1	[M]
R362	ERDS2TJ750T	1/4W 75	1	[M]
R367, 68	ERDS2TJ102T	1/4W 1K	2	[M]
R369, 70	ERDS2TJ182T	1/4W 1.8K	2	[M]
⚠ R371, 72	ERD2FCG220	1/4W 22	2	[M]
R373-75	ERDS2TJ103T	1/4W 10K	3	[M]
R401, 02	ERDS2TJ102T	1/4W 1K	2	[M]
R405-16	ERDS2TJ102T	1/4W 1K	12	[M]

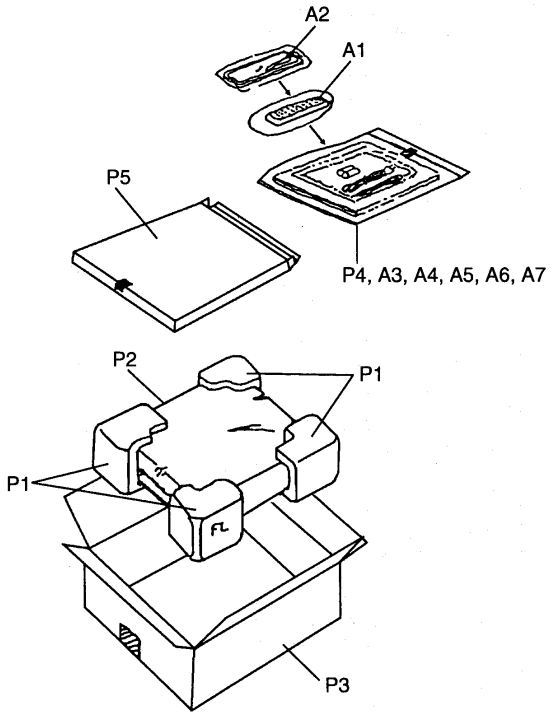
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R417, 18	ERDS2TJ473T	1/4W 47K	2	[M]
R419-22	ERDS2TJ104T	1/4W 100K	4	[M]
R423, 24	ERDS2TJ102T	1/4W 1K	2	[M]
R425-27	ERDS2TJ103T	1/4W 10K	3	[M]
R428	ERDS2TJ332T	1/4W 3.3K	1	[M]
R433, 34	ERDS2TJ102T	1/4W 1K	2	[M]
R435	ERDS2TJ473T	1/4W 47K	1	[M]
⚠ R440	ERDS1FJ560	1/2W 56	1	[M]
R441, 42	ERDS2TJ473T	1/4W 47K	2	[M]
⚠ R443	ERDS1FJ560	1/2W 56	1	[M]
R451, 52	ERDS2FJ224	1/4W 220K	2	[M]
R453, 54	ERDS2TJ391T	1/4W 390	2	[M]
R455, 56	ERDS2TJ563T	1/4W 56K	2	[M]
R457, 58	ERDS2TJ271T	1/4W 270	2	[M]
R459, 60	ERDS2FJ680	1/4W 68	2	[M]
R461, 62	ERDS2FJ184	1/4W 180K	2	[M]
R463, 64	ERDS2TJ123T	1/4W 12K	2	[M]
R465, 66	ERDS2TJ563T	1/4W 56K	2	[M]
R467, 68	ERDS2TJ102T	1/4W 1K	2	[M]
R473, 74	ERDS2TJ102T	1/4W 1K	2	[M]
R477	ERDS2TJ103T	1/4W 10K	1	[M]
R478	ERDS2TJ104T	1/4W 100K	1	[M]
R479, 80	ERDS2TJ822T	1/4W 8.2K	2	[M]
R481	ERDS2TJ332T	1/4W 3.3K	1	[M]
R483	ERDS2TJ822T	1/4W 8.2K	1	[M]
R484	ERDS2TJ104T	1/4W 100K	1	[M]
R485	ERDS2FJ224	1/4W 220K	1	[M]
R486	ERDS2TJ102T	1/4W 1K	1	[M]
R487	ERDS2TJ472T	1/4W 4.7K	1	[M]
R501, 02	ERDS2TJ222T	1/4W 2.2K	2	[M]
R503-06	ERDS2TJ103T	1/4W 10K	4	[M]
R507	ERDS2TJ153T	1/4W 15K	1	[M]
⚠ R508	ERDS1FJ2R2	1/2W 2.2	1	[M]
R509, 10	ERDS2TJ103T	1/4W 10K	2	[M]
R511, 12	ERDS2TJ471T	1/4W 470	2	[M]
R513-16	ERDS2TJ474T	1/4W 470K	4	[M]
R517, 18	ERDS2TJ332T	1/4W 3.3K	2	[M]
R519, 20	ERDS2TJ182T	1/4W 1.8K	2	[M]
R521, 22	ERDS2TJ223T	1/4W 22K	2	[M]
R523, 24	ERDS2FJ392	1/4W 3.9K	2	[M]
R525, 26	ERDS2TJ222T	1/4W 2.2K	2	[M]
R527, 28	ERDS2TJ122T	1/4W 1.2K	2	[M]
R529, 30	ERDS2TJ273T	1/4W 27K	2	[M]
R531, 32	ERDS2TJ332T	1/4W 3.3K	2	[M]
R533, 34	ERDS2TJ473T	1/4W 47K	2	[M]
R535, 36	ERDS2FJ392	1/4W 3.9K	2	[M]
R537, 38	ERDS2TJ103T	1/4W 10K	2	[M]
R539, 40	ERDS2FJ272	1/4W 2.7K	2	[M]
R541, 42	ERDS2FJ682	1/4W 6.8K	2	[M]
R543, 44	ERDS2TJ102T	1/4W 1K	2	[M]
R545	ERDS2TJ684T	1/4W 680K	1	[M]
R546	ERDS2TJ332T	1/4W 3.3K	1	[M]
R547	ERDS2TJ103T	1/4W 10K	1	[M]
R548	ERDS2FJ392	1/4W 3.9K	1	[M]
R549	ERDS2TJ222T	1/4W 2.2K	1	[M]
R550-52	ERDS2TJ102T	1/4W 1K	3	[M]
R553, 54	ERDS2TJ104T	1/4W 100K	2	[M]
R555, 56	ERDS2TJ223T	1/4W 22K	2	[M]
R557, 58	ERDS2TJ471T	1/4W 470	2	[M]
R559, 60	ERDS2TJ222T	1/4W 2.2K	2	[M]
R561, 62	ERDS2TJ102T	1/4W 1K	2	[M]
R563, 64	ERDS2TJ104T	1/4W 100K	2	[M]
R565	ERDS2TJ223T	1/4W 22K	1	[M]
R567	ERDS2TJ471T	1/4W 470	1	[M]
R569, 70	ERDS2TJ332T	1/4W 3.3K	2	[M]
R571, 72	ERDS2TJ222T	1/4W 2.2K	2	[M]
R573-78	ERDS2TJ102T	1/4W 1K	6	[M]
R579	ERDS2FJ122	1/4W 1.2K	1	[M]
R580	ERDS2TJ102T	1/4W 1K	1	[M]
R581	ERDS2TJ332T	1/4W 3.3K	1	[M]
R582-88	ERDS2TJ102T	1/4W 1K	7	[M]
R589	ERDS2TJ182T	1/4W 1.8K	1	[M]
R590	ERDS2TJ473T	1/4W 47K	1	[M]
R591, 92	ERDS2TJ222T	1/4W 2.2K	2	[M]
R593	ERDS2TJ100T	1/4W 10	1	[M]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R594	ERDS2TJ103T	1/4W 10K	1	[M]
R595	ERDS2TJ473T	1/4W 47K	1	[M]
R596	ERDS2TJ102T	1/4W 1K	1	[M]
R597, 98	ERDS2FJ272	1/4W 2.7K	2	[M]
R599-02	ERDS2TJ102T	1/4W 1K	4	[M]
R603, 04	ERDS2TJ563T	1/4W 56K	2	[M]
R605, 06	ERDS2TJ182T	1/4W 1.8K	2	[M]
R607, 08	ERDS2TJ563T	1/4W 56K	2	[M]
R609, 10	ERDS2TJ470T	1/4W 47	2	[M]
⚠ R611, 12	ERDS1FJ100	1/2W 10	2	[M]
R613, 14	ERDS2TJ102T	1/4W 1K	2	[M]
R615	ERDS2FJ184	1/4W 180K	1	[M]
R616	ERDS2TJ154T	1/4W 150K	1	[M]
R617, 18	ERDS2TJ473T	1/4W 47K	2	[M]
R619	ERDS2TJ223T	1/4W 22K	1	[M]
⚠ R620	ERD25FVJ220T	1/2W 22	1	[M]
⚠ R621, 22	ERDS2FJ680	1/4W 68	2	[M]
R623	ERDS2TJ104T	1/4W 100K	1	[M]
R624, 25	ERDS2TJ154T	1/4W 150K	2	[M]
R626	ERDS2TJ332T	1/4W 3.3K	1	[M]
R627	ERDS2TJ155T	1/4W 1.5M	1	[M]
R628	ERDS2TJ223T	1/4W 22K	1	[M]
R629, 30	ERDS2FJ682	1/4W 6.8K	2	[M]
R631	ERDS2TJ123T	1/4W 12K	1	[M]
R632	ERDS2TJ472T	1/4W 4.7K	1	[M]
R633	ERDS2TJ123T	1/4W 12K	1	[M]
R634	ERDS2TJ472T	1/4W 4.7K	1	[M]
⚠ R635, 36	ERDS2FJ330	1/4W 33	2	[M]
R637-40	ERG1SJ101	1W 100	4	[M]
R641	ERDS2TJ332T	1/4W 3.3K	1	[M]
R642	ERDS2TJ104T	1/4W 100K	1	[M]
R643	ERDS2TJ393T	1/4W 39K	1	[M]
⚠ R645, 46	ERD2FCG220	1/4W 22	2	[M]
R647, 48	ERDS2TJ221T	1/4W 220	2	[M]
⚠ R649, 50	ERDS2FJ680	1/4W 68	2	[M]
R651, 52	ERDS2TJ102T	1/4W 1K	2	[M]
R653, 54	ERDS2TJ563T	1/4W 56K	2	[M]
R655, 56	ERDS2TJ182T	1/4W 1.8K	2	[M]
R657, 58	ERDS2TJ563T	1/4W 56K	2	[M]
R659, 60	ERDS2TJ470T	1/4W 47	2	[M]
⚠ R661, 62	ERDS1FJ100	1/2W 10	2	[M]
R663, 64	ERDS2TJ102T	1/4W 1K	2	[M]
R665	ERDS2FJ184	1/4W 180K	1	[M]
R666	ERDS2TJ154T	1/4W 150K	1	[M]
R667	ERDS2TJ102T	1/4W 1K	1	[M]
R668	ERDS2TJ563T	1/4W 56K	1	[M]
R669	ERDS2TJ182T	1/4W 1.8K	1	[M]
R670	ERDS2TJ563T	1/4W 56K	1	[M]
⚠ R671, 72	ERDS2FJ680	1/4W 68	2	[M]
R673	ERDS2TJ470T	1/4W 47	1	[M]
⚠ R674	ERDS1FJ100	1/2W 10	1	[M]
R675	ERDS2TJ102T	1/4W 1K	1	[M]
⚠ R676	ERDS2FJ330	1/4W 33	1	[M]
R677	ERDS2TJ274T	1/4W 270K	1	[M]
R678	ERDS2FJ184	1/4W 180K	1	[M]
R679	ERDS2FJ330	1/4W 33	1	[M]
R680	ERDS2TJ221T	1/4W 220	1	[M]
R681-94	ERDS2FJ270	1/4W 27	14	[M]
R695, 96	ERDS2TJ102T	1/4W 1K	2	[M]
R697, 98	ERDS2TJ221T	1/4W 220	2	[M]
R699	ERDS2TJ332T	1/4W 3.3K	1	[M]
⚠ R703, 04	ERDS1FJ3R9	1/2W 3.9	2	[M]
R705	ERDS2TJ472T	1/4W 4.7K	1	[M]
R706	ERDS2TJ102T	1/4W 1K	1	[M]
⚠ R707	ERDS2FJ221	1/4W 220	1	[M]
R708	ERDS2TJ152T	1/4W 1.5K	1	[M]
R709, 10	ERDS2FJ1R5	1/4W 1.5	2	[M]
R711	ERDS2FJ752	1/4W 7.5K	1	[M]
R712	ERDS2FJ682	1/4W 6.8K	1	[M]
R713, 14	ERDS2TJ390T	1/4W 39	2	[M]
⚠ R721	ERDS1FJ561	1/2W 560	1	[M]
R722	ERDS2TJ123T	1/4W 12K	1	[M]
⚠ R723, 24	ERDS1FJ100	1/2W 10	2	[M]
R725	ERDS2TJ821T	1/4W 820	1	[M]
⚠ R726, 27	ERD25FVJ331T	1/4W 330	2	[M]

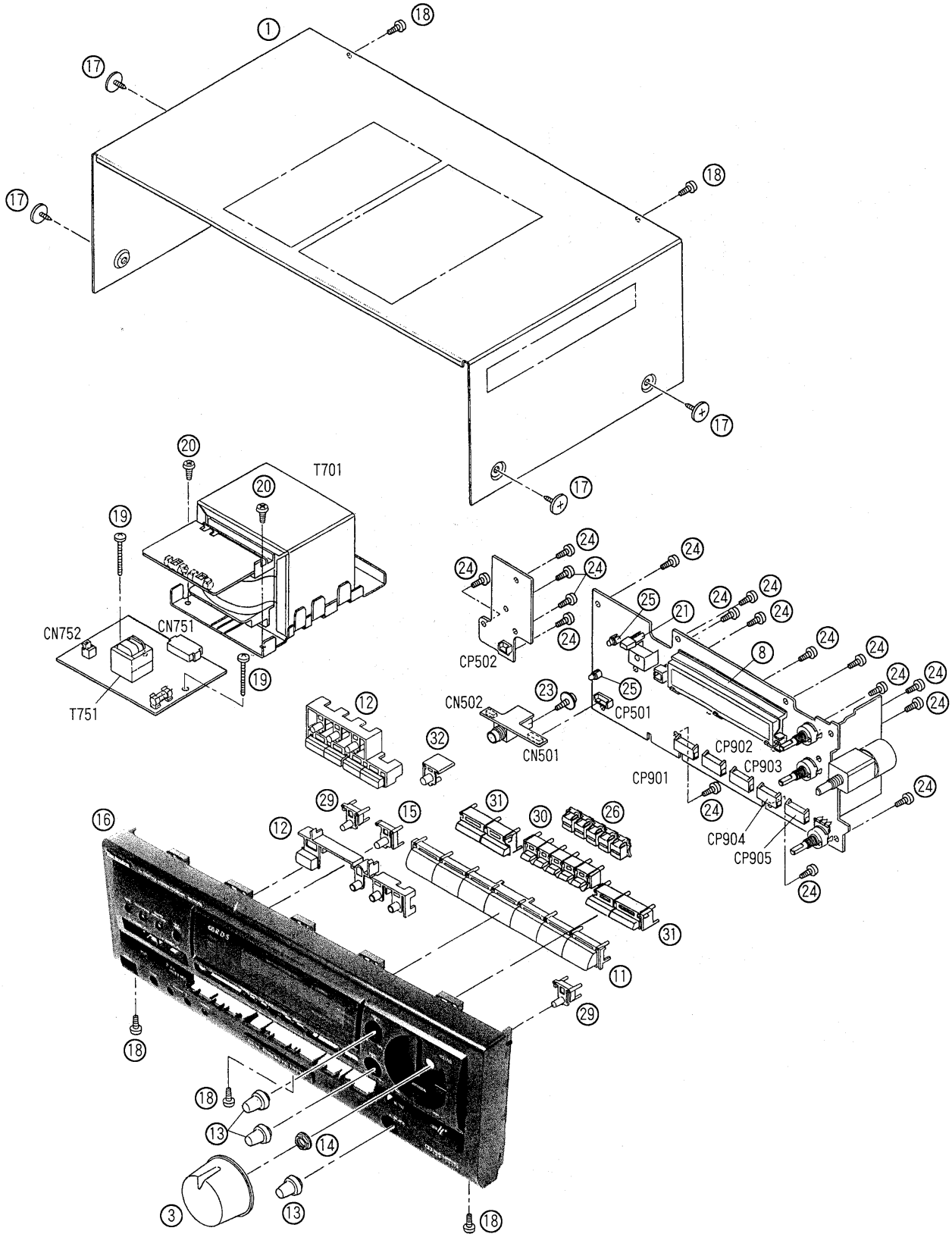
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R729	ERDS2TJ684T	1/4W 680K	1	[M]
⚠ R730	ERDS1FJ5R6	1/2W 5.6	1	[M]
⚠ R732	ERDS1FJ150	1/2W 15	1	[M]
R754	ERDS2TJ102T	1/4W 1K	1	[M]
R771, 72	ERDS2TJ473T	1/4W 47K	2	[M]
R773	ERDS2TJ103T	1/4W 10K	1	[M]
R774	ERDS2TJ335T	1/4W 3.3M	1	[M]
R775	ERDS2TJ331T	1/4W 330	1	[M]
⚠ R776	ERDS1FJ4R7	1/2W 4.7	1	[M]
R777	ERDS2FJ224	1/4W 220K	1	[M]
R778	ERDS2TJ472T	1/4W 4.7K	1	[M]
R779	ERDS2TJ103T	1/4W 10K	1	[M]
R782	ERDS2TJ470T	1/4W 47	1	[M]
R783	ERDS2TJ103T	1/4W 10K	1	[M]
R784	ERDS2TJ154T	1/4W 150K	1	[M]
R785	ERDS2TJ103T	1/4W 10K	1	[M]
R786	ERDS2TJ154T	1/4W 150K	1	[M]
R791-96	ERDS2TJ223T	1/4W 22K	6	[M]
R797	ERDS2FJ682	1/4W 6.8K	1	[M]
R798	ERDS2TJ223T	1/4W 22K	1	[M]
R799	ERDS2FJ682	1/4W 6.8K	1	[M]
R901	ERDS2TJ102T	1/4W 1K	1	[M]
R906-09	ERDS2TJ104T	1/4W 100K	4	[M]
R910	ERDS2TJ102T	1/4W 1K	1	[M]
R911	ERDS2TJ104T	1/4W 100K	1	[M]
R913	ERDS2TJ103T	1/4W 10K	1	[M]
R917	ERDS2TJ103T	1/4W 10K	1	[M]
R920	ERDS2TJ271T	1/4W 270	1	[M]
R921	ERDS2TJ121T	1/4W 120	1	[M]
R922	ERDS2TJ472T	1/4W 4.7K	1	[M]
R924	ERDS2TJ333T	1/4W 33K	1	[M]
R926	ERDS2TJ121T	1/4W 120	1	[M]
R927	ERDS2FJ181	1/4W 180	1	[M]
R928	ERDS2TJ121T	1/4W 120	1	[M]
R929, 30	ERDS2TJ101T	1/4W 100	2	[M]
R936, 37	ERDS2TJ104T	1/4W 100K	2	[M]
R941	ERDS2TJ472T	1/4W 4.7K	1	[M]
R943	ERDS2TJ102T	1/4W 1K	1	[M]
R944, 45	ERDS2TJ104T	1/4W 100K	2	[M]
R946-49	ERDS2TJ103T	1/4W 10K	4	[M]
R950	ERDS2TJ102T	1/4W 1K	1	[M]
R951	ERDS2TJ122T	1/4W 1.2K	1	[M]
R952	ERDS2TJ152T	1/4W 1.5K	1	[M]
R953	ERDS2TJ182T	1/4W 1.8K	1	[M]
R954	ERDS2TJ222T	1/4W 2.2K	1	[M]
R955	ERDS2TJ332T	1/4W 3.3K	1	[M]
R956	ERDS2TJ472T	1/4W 4.7K	1	[M]
R957	ERDS2FJ682	1/4W 6.8K	1	[M]
R958	ERDS2TJ123T	1/4W 12K	1	[M]
R960	ERDS2TJ102T	1/4W 1K	1	[M]
R961	ERDS2TJ122T	1/4W 1.2K	1	[M]
R962	ERDS2TJ152T	1/4W 1.5K	1	[M]
R963	ERDS2TJ182T	1/4W 1.8K	1	[M]
R964	ERDS2TJ222T	1/4W 2.2K	1	[M]
R965	ERDS2TJ332T	1/4W 3.3K	1	[M]
R970	ERDS2TJ102T	1/4W 1K	1	[M]
R971	ERDS2TJ122T	1/4W 1.2K	1	[M]
R972	ERDS2TJ152T	1/4W 1.5K	1	[M]
R973	ERDS2TJ182T	1/4W 1.8K	1	[M]
R974	ERDS2TJ222T	1/4W 2.2K	1	[M]
R975	ERDS2TJ332T	1/4W 3.3K	1	[M]
R976	ERDS2TJ472T	1/4W 4.7K	1	[M]
R980	ERDS2TJ102T	1/4W 1K	1	[M]
R981	ERDS2TJ122T	1/4W 1.2K	1	[M]
R982	ERDS2TJ152T	1/4W 1.5K	1	[M]
R983	ERDS2TJ182T	1/4W 1.8K	1	[M]
R984	ERDS2TJ222T	1/4W 2.2K	1	[M]
R990	ERDS2TJ153T	1/4W 15K	1	[M]
R1001-04	ERDS2TJ102T	1/4W 1K	4	[M]
R1005	ERDS2FJ203	1/4W 20K	1	[M]
R1007, 08	ERDS2TJ473T	1/4W 47K	2	[M]
R1009-11	ERDS2TJ332T	1/4W 3.3K	3	[M]
R1012	ERDS2TJ102T	1/4W 1K	1	[M]
R1013	ERDS2TJ103T	1/4W 10K	1	[M]
R1014	ERDS2TJ104T	1/4W 100K	1	[M]

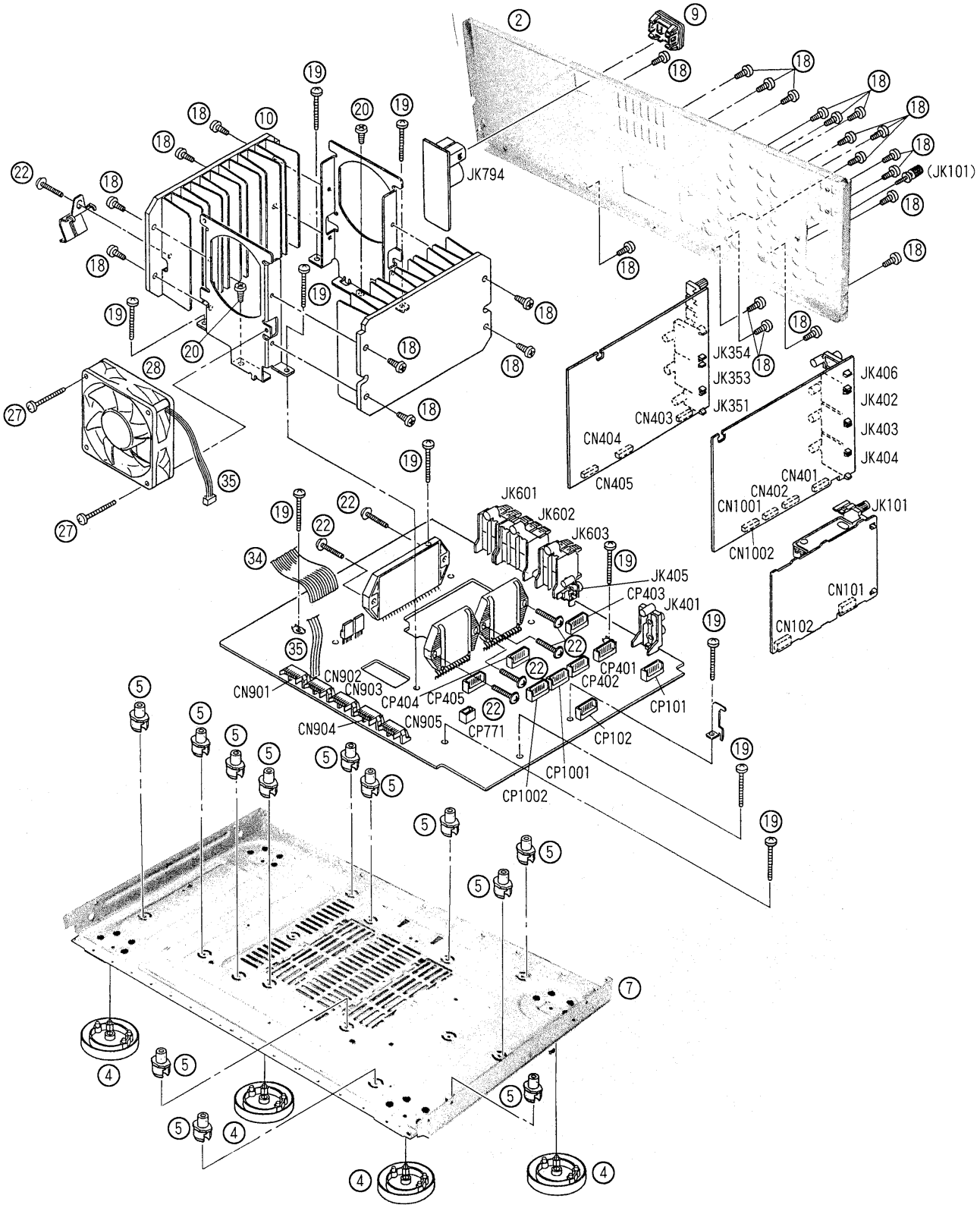
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1051	ERDS2TJ393T	1/4W 39K	1	[M]
R1052	ERDS2FJ105	1/4W 1M	1	[M]
R1053	ERDS2TJ102T	1/4W 1K	1	[M]
R1055	ERDS2FJ224	1/4W 220K	1	[M]
R1056	ERDS2TJ153T	1/4W 15K	1	[M]
R1061	ERDS2TJ222T	1/4W 2.2K	1	[M]
R1062	ERDS2TJ273T	1/4W 27K	1	[M]
R1063	ERDS2TJ332T	1/4W 3.3K	1	[M]
R1151, 52	ERDS2TJ473T	1/4W 47K	2	[M]
R1154	ERDS2TJ273T	1/4W 27K	1	[M]
R1155, 56	ERDS2TJ393T	1/4W 39K	2	[M]
R1158	ERDS2TJ104T	1/4W 100K	1	[M]
R1160	ERDS2TJ104T	1/4W 100K	1	[M]
R469, 70	ERDS2TJ102T	1/4W 1K	2	[M] (E)
⚠ RL601-04	RSY0013M-0	RELAY	4	[M]
⚠ RL751	RSY0019M-0	RELAY	1	[M]
S946	EVQ21405R	SW	1	[M]
S948	EVQ21405R	SW	1	[M]
S950-58	EVQ21405R	SW	9	[M]
S965	EVQ21405R	SW	1	[M]
S970-76	EVQ21405R	SW	7	[M]
S980-85	EVQ21405R	SW	6	[M]
S991-96	EVQ21405R	SW	6	[M]
⚠ T701	RTP1Q5B003-V	POWER TRANSFORMER	1	[M]
⚠ T751	RTP115E006	POWER TRANSFORMER	1	[M]
VR401-03	EVUE3AE20B15	VOLUME	3	[M]
VR501	EUWM6A026B15	VOLUME	1	[M]
VR502	EWC0YAF15G15	VOLUME	1	[M]
VR511, 12	EWC1XA016C15	VOLUME	2	[M]
X101	RSXZ456KM07M	OSCILLATOR	1	[M]
X102	RLFDGTD011	OSCILLATOR	1	[M]
X103	SVQ49U722T-S	OSCILLATOR	1	[M]
Z101	RLA2Z002M-T	COMPONENT COMBINATION	1	[M]
Z102	RL12Z006M-T	COMPONENT COMBINATION	1	[M]
Z120	ENV17290G1R	FM FRONT END	1	[M]
⚠ Z751	ERZV10V511CS	COMPONENT COMBINATION	1	[M]
Z891	RCDSPS4242N	REMOTE SENSOR	1	[M]

■ Packaging



■ Cabinet Parts Location

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